



GB 4806.15-2024

National Food Safety Standard

Adhesives for Food Contact Materials and Products

食品安全国家标准 食品接触材料及制品用黏合剂

National Health Commission of the People's
Republic of China
State Administration for Market Regulation of the
People's Republic of China

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National Standard of the People's Republic of China

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National Food Safety Standard

Adhesives for Food Contact Materials and Products

1. Scope

This standard applies to adhesives for food contact materials and products.

2. Terms and Definitions

2.1 Adhesives for food contact materials and products

Food contact materials and products that are in direct or indirect contact with food through physical or chemical bonding.

3. Product Categories

Adhesives for food contact materials and products can be divided into two categories according to whether they are in direct contact with food:

——Adhesives for direct food contact: Adhesives used on the food contact surface of food contact materials and products that are intended to come into direct contact with food.

——Adhesives for indirect food contact: Adhesives used on non-food contact surfaces of food contact materials and products that are not expected to come into direct contact with food, but whose components may be transferred to food.

4. Basic Requirements

4.1 Adhesives used in food contact materials and products should comply with the requirements of GB 4806.1.

4.2 Manufacturers of adhesives for food contact materials and products should control the safety risks of adhesive products through formula design, raw material selection, production process control, product information transmission, etc.

4.3 Companies using adhesives for food contact materials and products should control safety risks from adhesives through packaging design such as seams and edges, adding effective barrier layers, curing process control, and product information transmission; the

amount of adhesive used and the amount of residue should be reduced as much as possible while achieving the desired effect.

5. Technical Requirements

5.1 Raw material requirements

5.1.1 The use of basic raw materials for adhesives in direct contact with food shall comply with the requirements of Annex A and relevant announcements. The use of basic raw materials for indirect food contact adhesives shall comply with the requirements of Annex A, Annex B and relevant announcements.

5.1.2 The use of adhesive additives for food contact materials and products shall comply with the requirements of GB 9685 and related announcements. Additives used in adhesives for direct food contact can also be used in adhesives for indirect food contact.

5.2 Sensory requirements

The sensory requirements for adhesive layers in direct contact with food shall comply with the requirements in Table 1.

Table 1 Sensory requirements

Project	Requirement
Sensory	Normal color, no odor, impurities, etc.
Soaking liquid	The soaking liquid obtained from the migration test has no deterioration in sensory properties such as coloration, turbidity, precipitation, and odor

5.3 Physical and chemical indicators

5.3.1 General physical and chemical indicators

The general physical and chemical indicators of the adhesive layer should comply with the requirements of Table 2.

Table 2 General physical and chemical indicators

Project	Index	Detection method
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Total migration amount ^a /(mg/dm ²) ^b	≤	10	GB 31604.8
Potassium permanganate consumption ^a /(mg/kg)		10	GB 31604.2
Water (60°C, 2h)	≤		
Heavy metal (in terms of Pb) ^a /(mg/kg)		1	GB 31604.9
4% acetic acid (volume fraction) (60°C, 2h)	≤		
Total amount of aromatic primary amines migrated ^c /(mg/kg)		Not to be detected (Detection limit =0.01 mg/kg)	GB 31604.52

^a Only applicable to adhesive layers that come into direct contact with food. For the adhesive layer that indirectly contacts food, this item shall be implemented in accordance with the provisions of the corresponding national food safety standard for the layer that directly contacts food.

^b Adhesives used in food contact materials and products for infants and young children should convert the results into mg/kg in terms of the area-volume ratio in actual use, and the limit is ≤60 mg/kg.

^c Only applicable to adhesives containing aromatic polyurethanes that may produce aromatic primary amines. After the adhesive curing reaction is completed, the migration amount of aromatic primary amines should be tested on food contact materials and final products. Annex A and Annex B of this standard, GB 9685 and related announcements specify the migration limits of aromatic primary amines, and their limits shall be implemented in accordance with relevant regulations.

5.3.2 Other physical and chemical indicators

5.3.2.1 Adhesives for food contact materials and products shall comply with the physical and chemical indicators such as the specific migration limit (SML) of basic raw materials, the specific total migration limit [SML(T)], and the maximum residue (QM) specified in Annex A, Annex B and related announcements.

5.3.2.2 Adhesives for food contact materials and products should comply with the physical and chemical indicators of additives such as SML, SML(T), QM, etc. as specified in GB 9685 and related announcements.

6. Other

6.1 Migration test

Migration tests should be carried out in accordance with the provisions of GB 31604.1 and GB 5009.156, except where otherwise specified in this standard.

6.2 Label identification

6.2.1 Labels and markings shall comply with the provisions of GB 4806.1.

6.2.2 The product category (adhesives for direct food contact, adhesives for indirect food contact) should be indicated on the label of adhesive products.

Annex A

Basic raw materials and usage requirements allowed for adhesives in direct contact with food

A.1 Table A.1 specifies the list of basic raw materials allowed for adhesives for direct food contact and their usage requirements. The basic raw materials listed in Table A.1 shall be in terms of CAS numbers. If there is no CAS number, the Chinese name shall prevail.

A.2 The specific migration limit [SML(T)] and SML(T) grouping number in GB 9685 are applicable to this standard.

A.3 If the monomers and other starting materials used in the synthesis of polymers in Table A.1 are acids, alcohols or phenols, their sodium salts, potassium salts and calcium salts (including acid salts and double salts) may also be used in the synthesis of the corresponding polymers and shall comply with the restrictive requirements for the corresponding acid, alcohol or phenol monomers and other starting materials; the sodium salts, potassium salts and calcium salts (including acid salts and double salts) of the monomers and other starting materials listed in Table A.1 shall be used in accordance with the provisions of this standard.

Table A.1 Basic raw materials and usage requirements allowed for adhesives used in direct contact with food

Serial number	Chinese name	CAS number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) group No.	Other requirements
1	(2E)-2-Butenedioic acid, polymer with 1,3-butadiene, styrene, methyl methacrylate, acrylonitrile and 2-propenoic acid	85600-91-5	Use in appropriate amount according to production needs	0.05 (butenoic acid: SML); ND(1,3-Butadiene: SML, DL = 0.01 mg/kg); ND(Acrylonitrile: SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	If there is no corresponding detection method for the migration of butenoic acid, 0.05 mg /6 dm ² (QM) can be used as its limit value.
2	(Z,Z)-α-(1-oxo-9-octadecyl)-ω-[(1-oxo-9-octadecyl)oxy] polyoxyethylene	9005-07-6	Use in appropriate amount according to production needs	30{(Z,Z)-α-(1-oxo-9-octadecyl)-ω-[(1-oxo-9-octadecyl)oxy]polyoxyethylene: SML}			The use temperature of the produced materials or products shall not exceed 100℃
3	[(Vinyl dimethylsilyl)oxy and modified (trimethylsilyl)oxy]silane	68988-89-6	Use in appropriate amount according to production needs				
4	1,2-Propanediol, polymer with sebacic acid	26222-20-8	Use in appropriate amount according to production needs				
5	1-Butene homopolymer; Poly-1-butene	9003-28-5	Use in appropriate amount according to production needs				
6	Ammonium salt of 2-acrylic acid, polymer with styrene and (1-methylvinyl) benzene	89678-90-0	Use in appropriate amount according to production needs	0.05[(1-methylvinyl) benzene: SML]	6 (in terms of Acrylic acid)	22	

Table A.1 Basic raw materials and usage requirements allowed for adhesives in direct contact with food (continued)

Serial number	Chinese name	CAS number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) group No.	Other requirements
7	2- Propylene methyl ester, copolymer with acrylonitrile, methacrylic acid, methyl methacrylate and styrene		Use in appropriate amount according to production needs	0.05 (2 - methyl - 2-propenoic acid-2-propenyl ester:SML), ND (acrylonitrile: SML, DL=0.01mg/kg)	6 (in terms of methacrylic acid)	23	
8	α -Thio- ω - (branched and linear) undecyloxypoly (oxy-1,2-ethylenediyl) sodium salt	219756-63-5	Use in appropriate amount according to production needs				
9	α - Isotridecyl- ω -hydroxypoly (oxy- 1,2-ethylene)	9043-30-5	Use in appropriate amount according to production needs	1 (ethylene oxide: QM) or ND (ethylene oxide : SML, DL=0.01 mg/kg)			Ethylene oxide reacts easily with water-based food simulants, and its compliance can be verified by residual screening and migration.
10	Polymer of phenol and formaldehyde	9003-35-4	Use in appropriate amount according to production needs	3.0 (phenol: SML)	15(in terms of formaldehyde)	15	
11	Styrene homopolymer; Polystyrene	9003-53-6	Use in appropriate amount according to production needs				

12	Polymer of styrene and 1,3 - butadiene	9003-55-8	Use in appropriate amount according to production needs	ND (1,3-butadiene: SML, DL=0.01mg/kg)			
13	Polymer of styrene and 2 - methyl-1,3- butadiene	25038-32-8	Use in appropriate amount according to production needs	ND (2-methyl-1,3 butadiene, DL=0.01mg/kg: SML) or 1 (2-methyl-1,3-butadiene: QM)			
14	Styrene, copolymer with butyl acrylate and acrylic acid	25586-20-3	Use in appropriate amount according to production needs		6 (in terms of terms of acrylic acid)	22	
15	Terpolymer of acrylonitrile, 1,3-butadiene and styrene	9003-56-9	Use in appropriate amount according to production needs	ND(Acrylonitrile : SML,DL=0.01 mg/kg);ND (1,3-butadiene:SML, DL=0.01 mg/kg)			
16	Polymer of acrylonitrile and 1,3 -butadiene; nitrile rubber	9003-18-3	Use in appropriate amount according to production needs	ND(Acrylonitrile : SML,DL=0.01 mg/kg); ND (1,3-butadiene: SML, DL=0.01 mg /kg)			

Table A.1 Basic raw materials and usage requirements allowed for adhesives in direct contact with food (continued)

Serial number	Chinese name	CAS number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) group No.	Other requirements
17	Acrylonitrile, copolymer with 2-ethylhexyl acrylate, methacrylic acid and styrene	26873-77-8	Use in appropriate amount according to production needs	ND (Acrylonitrile : SML, DL= 0.01mg/kg);0.05 (2-ethylhexyl acrylate: SML)	6 (in terms of methacrylic acid)	23	
18	Acrylonitrile, copolymer with butyl acrylate, and <i>N</i> -hydroxymethyl-methacrylamide	29434-28-4	Use in appropriate amount according to production needs	ND (acrylonitrile : SML, DL=0.01mg/kg); 0.05 (<i>N</i> -hydroxymethyl-methacrylamide: SML)	6 (in terms of acrylic acid)	22	
19	Polymer of acrylonitrile and ethyl acrylate	25053-12-7	Use in appropriate amount according to production needs	ND (Acrylonitrile: SML,DL=0.01mg/kg)	6 (in terms of acrylic acid)	22	
20	Acrylonitrile, copolymer with ethyl acrylate and <i>N</i> -methylol-acrylamide	29013-35-2	Use in appropriate amount according to production needs	ND (acrylonitrile: SML,DL=0.01mg/kg); 0.05(<i>N</i> -hydroxymethyl-acrylamide: SML)	6 (in terms of acrylic acid)	22	
21	Acrylonitrile, copolymer with ethyl acrylate and methylene succinic acid	35705-21-6	Use in appropriate amount according to production needs	ND (Acrylonitrile: SML,DL=0.01mg/kg)	6 (in terms of acrylic acid)	22	
22	Acrylonitrile, copolymer with methyl methacrylate and styrene	25213-88-1	Use in appropriate amount according to production needs	ND (Acrylonitrile: SML,DL=0.01mg/kg)	6 (in terms of terms of methacrylic acid)	23	
23	Propylene homopolymer; Polypropylene	9003-07-0	Use in appropriate amount according to production needs				

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24	Butyl acrylonitrile, copolymer with butyl methacrylate, methacrylic acid and methyl methacrylate	26184-07-6	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
25	Butyl acrylate, copolymer with methacrylic acid and methyl methacrylate	25035-69-2	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

Table A.1 Basic raw materials and usage requirements allowed for adhesives in direct contact with food (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
26	Butyl acrylate copolymer with methylene succinic acid, methacrylic acid and styrene	65899-77-6	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
27	Methyl acrylate, polymer with 1,3-butadiene and acrylonitrile	27012-62-0	Use in appropriate amount according to production needs	ND(Acrylonitrile: SML, DL=0.01 mg/kg); ND(1,3-Butadiene: SML, DL=0.01 mg/kg)	6 (in terms of acrylic acid)	22	The materials or products produced are only used for contact with water-based food, oily food and dry food, and the use temperature shall not exceed 66℃
28	Ethyl acrylate, copolymer with methacrylic acid	25212-88-8	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
29	Ethyl acrylate, polymer with ethylene and maleic anhydride	41171-14-6	Use in appropriate amount according to production needs		30 (in terms of maleic acid); 6 (in terms of acrylic acid)	3;22	
30	Acrylic acid, copolymer with butyl acrylate, 2-ethylhexyl acrylate and methyl acrylate	98060-25-4	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate: SML)	6 (in terms of acrylic acid)	22	

31	Acrylic acid, copolymer with butyl acrylate and 2-methylpropyl acrylate	58090-96-3	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
32	Acrylic acid, copolymer with butyl acrylate and methyl methacrylate	26300-51-6	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
33	Copolymer of acrylamide, acrylonitrile, ethyl acrylate, methylene succinic acid and <i>N</i> -hydroxymethyl-acrylamide	65379-28-4	Use in appropriate amount according to production needs	ND (acrylamide: SML, DL=0.01mg/kg); ND(acrylonitrile: SML, DL=0.01mg/kg); 0.05(<i>N</i> -hydroxymethyl-acrylamide: SML)	6 (in terms of acrylic acid)	22	

Table A.1 Basic raw materials and usage requirements allowed for adhesives in direct contact with food (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
34	Dimethyl (siloxane and polysiloxane) reaction products with silicon dioxide	67762-90-7	Use in appropriate amount according to production needs				
35	Methyl silsesquioxane	68554-70-1	Use in appropriate amount according to production needs				The residual amount of methyltrimethoxysilane in this substance is less than 1 mg/kg
36	Butyl methacrylate copolymer with 2-ethylhexyl acrylate, methacrylic acid and methyl methacrylate	56925-73-6	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate: SML)	6 (in terms of methacrylic acid)	23	
37	Methyl methacrylate, polymer with ethyl acrylate and 2-propenoic acid	25135-39-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
38	Methacrylic acid, polymer with butyl acrylate	25035-82-9	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
39	Methacrylic acid, polymer with butyl acrylate and ethyl acrylate	31069-81-5	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

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40	Methacrylic acid, copolymer with ethyl acrylate and methyl methacrylate	25133-97-5	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
41	Polyethylene glycol	25322-68-3	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol)	2	
42	Diallyl phthalate copolymer with ethyl acrylate and methacrylic acid	28411-49-6	Use in appropriate amount according to production needs	ND (Diallyl Phthalate: SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	The materials or products produced shall not be used in contact with oily foods or foods with an ethanol content higher than 20% (volume fraction); they shall not be used in the production of food contact materials and products for infants and young children.

Table A.1 Basic raw materials and usage requirements allowed for adhesives in direct contact with food (continued)

Serial number	Chinese name	CAS number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML (T) group No.	Other requirements
43	Hydrogen terminated dimethyl (siloxanes and polysiloxanes)	70900-21-9	Use in appropriate amount according to production needs				
44	Tri-1,2-propylene glycol	24800-44-0	Use in appropriate amount according to production needs				
45	Natural rubber		Use in appropriate amount according to production needs		ND (2-methyl-1,3-butadiene: SML, DL=0.01mg/kg) or 1(2-methyl-1,3-butadiene:QM)		
46	Tall Oil Rosin	8052-10-6	Use in appropriate amount according to production needs				
47	Sodium bisulfite and acrylic acid telomer	66019-18-9	Use in appropriate amount according to production needs		10 (in terms of sulfur dioxide); 6 (in terms of acrylic acid)	19;22	
48	Ethylene homopolymer; Polyethylene	9002-88-4	Use in appropriate amount according to production needs				

49	Ethylene-vinyl acetate-vinyl alcohol polymer	26221-27-2	Use in appropriate amount according to production needs	12(vinyl acetate:SML)			The materials or products produced shall not be used in contact with food containing more than 8% ethanol (volume fraction)
50	Ethylene, polymer with acrylic acid	9010-77-9	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
51	Isoprene-isobutylene copolymers; 2-methyl-1,3-butadiene polymers containing 1-methyl-1-propyl	9010-85-9	Use in appropriate amount according to production needs	ND(2-methyl-1,3-butanediol) or 1(2-methyl-1,3-butadiene: QM)			

Annex B

Basic raw materials and usage requirements allowed for adhesives for indirect food contact

B.1 Table B.1 specifies the list of basic raw materials allowed for adhesives for indirect food contact and their usage requirements. The basic raw materials listed in Table B.1 shall be in terms of CAS numbers. If there is no CAS number, the Chinese name shall prevail.

B.2 Substances with a molecular weight greater than 1000 Da formed by polymerization or other methods from monomers, other starting materials, basic polymers and other basic raw materials listed in Table B.1 are also allowed to be used as basic raw materials for indirect food contact adhesives and should comply with the restrictive requirements for the corresponding monomers, other starting materials, basic polymers and other basic raw materials.

B.3 The specific migration limit [SML(T)] and SML(T) grouping number in GB 9685 are applicable to this standard.

B.4 If the monomers and other starting materials used in the synthesis of the polymers in Table B.1 are acids, alcohols or phenols, their sodium salts, potassium salts and calcium salts (including acid salts and double salts) may also be used in the synthesis of the corresponding polymers and shall comply with the restrictive requirements for the corresponding acid, alcohol or phenol monomers and other starting materials; the sodium salts, potassium salts and calcium salts (including acid salts and double salts) of the monomers and other starting materials listed in Table B.1 shall be used in accordance with the provisions of this standard.

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T)) Group No.	Other requirements
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1	(Z)-2-Butenedioic acid, polymer with 2-propenoic acid	29132-58-9	Use in appropriate amount according to production needs		30 (in terms of maleic acid); 6 (in terms of acrylic acid)	3;22	
2	1,1,2,3,3,3-Hexafluoro-1-propylene, polymer with 1,1-difluoroethylene	9011-17-0	Use in appropriate amount according to production needs	ND(1,1,2,3,3,3-hexafluoro-1-propylene: SML, DL = 0.01 mg/kg); 5(1,1-difluoroethylene: SML)			The relative molecular mass should be greater than 70000Da
3	1,1-difluoroethylene homopolymer	24937-79-9	Use in appropriate amount according to production needs	5(1,1-Difluoroethylene:SML)			Do not contact with strong alkaline substances
4	1,1-dichloroethylene	75-35-4	Use in appropriate amount according to production needs	ND(1,1-dichloroethylene: SML,DL=0.01mg/kg) or 5 (1,1-dichloroethylene: QM)			
5	1,1-Dichloroethylene, polymer with acrylonitrile	9010-76-8	Use in appropriate amount according to production needs	ND (1,1-dichloroethylene: SML, DL = 0.01 mg/kg) or 5 (1,1-dichloroethylene: QM); ND (acrylonitrile: SML, DL = 0.01 mg/kg)			The use temperature of the produced materials or products shall not exceed 121℃
6	1,1-Dichloroethylene, polymer with methyl acrylate	25038-72-6	Use in appropriate amount according to production needs	ND(1,1-dichloroethylene: SML,DL=0.01mg/kg) or 5 (1,1-dichloroethylene: QM)	6 (in terms of acrylic acid)	22	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
7	1,2,4-Benzenetricarboxylic acid	528-44-9	Use in appropriate amount according to production needs		5(in terms of trimellitic acid)	21	
8	1,2-Propanediol	57-55-6	Use in appropriate amount according to production needs				
9	1,2-Diaminoethane	107-15-3	Use in appropriate amount according to production needs	12(1,2-Diaminoethane:SML)			
10	1,2-Ethanediol	107-21-1	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol)	2	
11	1,2-Ethanediol, polymer with isophthalic acid, 2,2-dimethyl-1,3-propanediol, sebacic acid and toluene diisocyanate	153597-64-9	Use in appropriate amount according to production needs	0.05 (2,2-dimethyl-1,3-propanediol: SML); 1(Toluene diisocyanate : in terms of isocyanate, QM)	30 (in ethylene glycol); ND (in terms of Isocyanate meter, DL=0.01mg/kg); 5(in terms of isophthalic acid)	2;17;27	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
12	1,3-Butadiene	106-99-0	Use in appropriate amount according to production needs	ND(1,3-Butadiene:SML, DL = 0.01 mg/kg)			

13	1,3-Butadiene oligomer homopolymer	68441-52-1	Use in appropriate amount according to production needs	ND(1,3-Butadiene:S ML, DL = 0.01 mg/kg)			
14	1,4-Butanediol	110-63-4	Use in appropriate amount according to production needs		5(in terms of 1,4-butanediol)	30	
15	1,4-Butanediol, polymer with α -hydro- ω -hydroxy poly(1,4-butanediol) and 4,4'-diphenylmethane diisocyanate	9018-04-6	Use in appropriate amount according to production needs	0.6 (tetrahydrofuran: SML); 1 (4,4'-diphenylmethane diisocyanate : in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01mg/kg); 5(in terms of 1,4-butanediol)	17;30	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
16	1,4-Butanediol, polymer with α -hydrogen- ω -hydroxy poly(1,4-butanediol) and diphenylmethane diisocyanate	37383-28-1	Use in appropriate amount according to production needs	0.6 (tetrahydrofuran: SML); 1 (diphenylmethane diisocyanate : in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01mg/kg); 5(in terms of 1,4-butanediol)	17;30	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
17	1,4-Butanediol, polymer with ϵ -caprolactone	31831-53-5	Use in appropriate amount according to production needs		0.05 (in terms of 6-hydroxycaproic acid and caprolactone); 5 (in terms of 1,4-butanediol)	29;30	
18	1,4-Bis(hydroxymethyl)cyclohexane	105-08-8	Use in appropriate amount according to production needs				
19	1,5-Naphthalene diisocyanate	3173-72-6	Use in appropriate amount according to production needs	1(1,5-naphthalene diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
20	1,6-Hexanediamine, polymer with 1,12-dodecanedioic acid	26098-55-5	Use in appropriate amount according to production needs	2.4(1,6-Hexanediamine:SML)			

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21	1,6-Hexanediol	629-11-8	Use in appropriate amount according to production needs	0.05(1,6-Hexanediol: SML)			
22	1,6-Hexanedioic acid	124-04-9	Use in appropriate amount according to production needs				
23	1,6-Hexanedioic acid, polymer with 1,2-ethylene glycol, isophthalic acid, 2-ethyl-2-hydroxymethyl-1,3-propanediol and terephthalic acid	83863-90-5	Use in appropriate amount according to production needs	6(2-ethyl-2-hydroxymethyl-1,3-propanediol / trimethylolpropane: SML)	30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	
24	1,6-Hexanedioic acid, polymer with 1,2-ethylene glycol, isophthalic acid, sebacic acid and terephthalic acid	28902-18-3	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	
25	1,6-Hexanedioic acid, polymer with 1,3-butanediol	24937-93-7	Use in appropriate amount according to production needs		30 [in terms of the sum of substances in SML(T) group No. 31]; 60 [in terms of the sum of substances in SML(T) group No. 32]	31;32	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
26	1,6-Hexanedioic acid, polymer with 1,4-butanediol and hexamethylene diisocyanate	28476-49-5	Use in appropriate amount according to production needs	1(Hexamethylene diisocyanate: in terms of isocyanate: QM)	ND (in terms of isocyanate, DL=0.01mg/kg); 5(in terms of 1,4-butanediol)	17;30	The use temperature of the produced materials or products shall not be higher than 200℃; isocyanates are easy to react with water-based food simulants, and their compliance can be verified by residual screening migration.
27	1,6-Hexanedioic acid, polymer with 1,6-hexanediol and 2,2-dimethyl-1,3-propanediol	25214-14-6	Use in appropriate amount according to production needs	0.05(1,6-hexanediol:SML); 0.05(2,2-dimethyl-1,3-propanediol: SML)			When used in sheet structures, it shall not be used in contact with food containing more than 8% (volume fraction) of ethanol.
28	1,6-Hexanedioic acid, polymer with 2,2'-oxydiethanol, 1,2-ethylene glycol and isophthalic acid	86713-72-6	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid)	2;27	

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29	1,6-Hexanedioic acid, polymer with 2,2'-ethanol, 1,2-ethylene glycol, isophthalic acid and 2-ethyl-2-hydroxymethyl-1,3-propanediol	-	Use in appropriate amount according to production needs	6(2-ethyl-2-hydroxymethyl-1,3-propanediol/trimethylolpropane: SML)	30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid)	2;27	
30	1,6-Hexanedioic acid, polymer with 2-ethyl-2-hydroxymethyl-1,3-propanediol	28301-90-8	Use in appropriate amount according to production needs	6(2-ethyl-2-hydroxymethyl-1,3-propanediol/trimethylolpropane: SML)			
31	1,6-Hexanedioic acid, polymer with castor oil, diethylene glycol, 1,6-hexanediol, isophthalic acid, propylene glycol and 4,4'-diphenylmethane diisocyanate		Use in appropriate amount according to production needs	0.05(1,6-hexanediol: SML); 1(4,4'-diphenylmethane diisocyanate: in terms of isocyanate, QM)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL = 0.01 mg/kg); 5 (in terms of isophthalic acid)	2;17;27	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
32	1,6-Hexanedioic acid, polymer with azacyclotridecan-2-one and α -hydro- ω -hydroxypoly (oxy-1,4-butylene)	77402-38-1	Use in appropriate amount according to production needs	5(Azacyclotridecan-2-one:SML)	5(1,4-butanediol: SML)	30	
33	1,6-Hexanedioic acid, polymer with diethylene glycol, terephthalic acid, diphenylmethane diisocyanate, polypropylene glycol and triisopropanolamine	-	Use in appropriate amount according to production needs	1(diphenylmethane diisocyanate: in terms of isocyanate, QM); 5(triisopropanolamine: SML)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL = 0.01 mg/kg); 7.5 (in terms of terephthalic acid)	2;17;28	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
34	1,6-Hexanedioic acid, polymer with diethylene glycol, terephthalic acid, diphenylmethane diisocyanate and polypropylene glycol	-	Use in appropriate amount according to production needs	1(diphenylmethane diisocyanate: in terms of isocyanate, QM)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL = 0.01 mg/kg); 7.5 (in terms of terephthalic acid)	2;17;28	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

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35	1,6-Hexanedioic acid, polymer with diethylene glycol, terephthalic acid, diphenylmethane diisocyanate and polypropylene glycol	-	Use in appropriate amount according to production needs	1(diphenylmethane diisocyanate: in terms of isocyanate, QM)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL = 0.01 mg/kg); 7.5 (in terms of terephthalic acid)	2;17;28	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
36	1,6-Hexanedioic acid, polymer with diethylene glycol, isophthalic acid, 4,4'-diphenylmethane diisocyanate and polypropylene glycol	180027-62-7	Use in appropriate amount according to production needs	1(4,4'-diphenylmethane diisocyanate: in terms of isocyanate, QM)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL=0.01mg/kg); 5(in terms of isophthalic acid)	2;17;27	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
37	1,6-Hexanedioic acid, polymer with diethylene glycol, ethylene glycol, isophthalic acid and isophorone diisocyanate	-	Use in appropriate amount according to production needs	1(Isophorone diisocyanate: in terms of isocyanate, QM)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL=0.01mg/kg); 5(in terms of isophthalic acid)	2;17;27	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
38	1,6-Hexanedioic acid, polymer with diethylene glycol and diphenylmethane diisocyanate	39466-00-7	Use in appropriate amount according to production needs	1(diphenylmethane diisocyanate: in terms of isocyanate, QM)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL=0.01mg/kg)	2;17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
39	1,6-Hexanedioic acid, polymer with isophthalic acid, 1,2-propylene glycol and 2-ethyl-2-hydroxymethyl-1,3-propanediol	26282-28-0	Use in appropriate amount according to production needs	6(2-ethyl-2-hydroxymethyl-1,3-propanediol/trimethylolpropane: SML)	5(in terms of isophthalic acid)	27	
40	1,6-Hexanedioic acid, polymer with azelaic acid, 1,2-ethylene glycol, isophthalic acid and	54688-53-8	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	

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	terephthalic acid						
41	1,6-Hexanedioic acid, polymer with oxybis[propanol], 1,6-hexanediol, 4,4'-diphenylmethane diisocyanate and 2,2-dimethyl-1,3-propanediol	1196-57-58-8	Use in appropriate amount according to production needs	0.05(1,6-hexanediol: SML); 1(4,4'-diphenylmethane diisocyanate: in terms of isocyanate, QM); 0.05(2,2-dimethyl-1,3-propanediol: SML)	ND (in terms of isocyanate, DL=0.01mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
42	1-Butene, polymer with ethylene	25087-34-7	Use in appropriate amount according to production needs				
43	1-Octene	111-66-0	Use in appropriate amount according to production needs	15(1-octene:SML)			

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
44	2,2'-[(1-methylethylene) bis(4,1-phenyleneoxymethylene)]bis(oxirane)	1675-54-3	Use in appropriate amount according to production needs	3[2,2-bis(4-hydroxyphenyl) propane: SML]; 1(ethylene oxide: QM) or ND(ethylene oxide: SML, DL=0.01mg/kg); 9 mg/6 dm ² [in terms of the sum of BADGE, BADGE·H ₂ O and BADGE·2H ₂ O: QM] or 9 [in terms of the sum of BADGE, BADGE·H ₂ O and BADGE·2H ₂ O: SML(T)]; 1 mg/6 dm ² [in terms of the sum of BADGE·HCl, BADGE·2HCl and BADGE·H ₂ O·HCl; QM] or 1 [in terms of the sum of BADGE·HCl, BADGE·2HCl and BADGE·H ₂ O·HCl: SML(T)]			Ethylene oxide is easy to react with water-based food simulants, and its compliance can be verified by residual screening migration amount.
45	2,2-Dimethyl-1,3-propanediol	126-30-7	Use in appropriate amount according to production needs	0.05(2,2-dimethyl-1,3-propanediol: SML)			
46	2,2-Dihydroxymethylbutanol;3-Hydroxymethylpropane;TMP	77-99-6	Use in appropriate amount according to production	6(2,2-dihydroxymethylbutanol: SML)			

			needs				
47	2,4'-Diphenylmethane diisocyanate; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene	5873-54-1	Use in appropriate amount according to production needs	1(2,4'-diphenylmethane diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01 mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
48	2,4-Toluene diisocyanate; 2,4-Diisocyanato-1-methylbenzene	584-84-9	Use in appropriate amount according to production needs	1(2,4-Toluene diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01 mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
49	2,6-Toluene diisocyanate;1,3-Diisocyanato-2-methylbenzene	91-08-7	Use in appropriate amount according to production needs	1(2,6-toluene diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
50	2-phenylpropene	98-83-9	Use in appropriate amount according to production needs	0.05(2-phenylpropene: SML)			
51	2-Methylpropyl acrylate	106-63-8	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
52	2-Propylene glycol homopolymer	9003-01-4	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
53	ammonium salt of 2-acrylic acid homopolymer	9003-03-6	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
54	sodium salt of 2-acrylic acid homopolymer	9003-04-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	

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55	2-Propenoic acid, polymer with 1,1-dichloroethylene and methyl acrylate	2612 4-53-8	Use in appropriate amount according to production needs	ND(1,1-dichloroethylene :SML, DL=0.01mg/kg) or 5 (1,1-dichloroethylene : QM)	6 (in terms of acrylic acid)	22	
56	sodium salt of 2-propenoic acid, polymer with maleic anhydride	5225 5-49-9	Use in appropriate amount according to production needs		30 (in terms of maleic acid); 6 (in terms of acrylic acid)	3;22	
57	sodium salt of 2-acrylic acid and 2-acrylamide polymer	2598 7-30-8	Use in appropriate amount according to production needs	ND (Acrylamide: SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid)	22	
58	2-Propenoic acid, polymer with 2-ethylhexyl-2-propenoate	2513 4-51-4	Use in appropriate amount according to production needs	0.05(2-ethylhexyl-2-acrylate:SML)	6 (in terms of acrylic acid)	22	
59	2-Propenoic acid, polymer with butyl-2-acrylate, styrene, 2-ethylhexyl-2-acrylate and 2-hydroxyethyl-2-acrylate	6852 7-36-6	Use in appropriate amount according to production needs	0.05(2-ethylhexyl-2-acrylate:SML)	6 (in terms of acrylic acid)	22	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
60	Sodium salt of 2-acrylic acid, telomer with sodium bisulfite	68479-09-4	Use in appropriate amount according to production needs		10 (in terms of sulfur dioxide); 6 (in terms of acrylic acid)	19;22	
61	2-Acrylic acid, polymer with vinylbenzene and (1-methylvinyl) benzene	52831-04-6	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
62	ammonium salt of 2-Acrylic acid, polymer with vinylbenzene	35209-54-2	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
63	2-Acrylamide	79-06-1	Use in appropriate amount according to production needs	ND (Acrylamide: SML, DL = 0.01 mg/kg)			
64	2-Butenoic acid, polymer with vinyl acetate	25609-89-6	Use in appropriate amount according to production needs	0.05 (butenoic acid: SML); 12 (vinyl acetate: SML)			If there is no corresponding detection method for the migration of butenoic acid, 0.05 mg/6 dm ² (QM) can be used as its limit value.

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65	2-Methyl-1,3-butadiene	78-79-5	Use in appropriate amount according to production needs	ND(2-Methyl-1,3-butadiene: SML, DL = 0.01 mg/kg) or 1 (2-methyl-1,3-butadiene: QM)			
66	2-Methyl-1,3-butadiene, polymer with 2-methyl-1-propene, chloride	68081-82-3	Use in appropriate amount according to production needs	ND(2-methyl-1,3-butadiene :SML, DL = 0.01 mg/kg) or 1 (2-methyl-1,3-butadiene: QM)			
67	2-Methyl-1,3-butadiene, polymer with 2-methyl-1-propene bromide	68441-14-5	Use in appropriate amount according to production needs	ND(2-methyl-1,3-butadiene: SML, DL = 0.01 mg/kg) or 1 (2-methyl-1,3-butadiene: QM)			
68	2-Propylene Methylacrylate	96-05-9	Use in appropriate amount according to production needs	0.05 (2-methyl-2-propenyl acrylate: SML)			
69	2-Propenoic acid, 2-methyl-2-propenyl ester, polymer with acrylonitrile, methacrylic acid, methyl methacrylate and styrene	-	Use in appropriate amount according to production needs	0.05(2-methyl-2-propenyl ester: SML); ND(acrylonitrile: SML, DL=0.01mg/kg)	6 (in terms of methacrylic acid)	23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
70	2-Propenoic acid, 2-methyl-2-propenyl ester, polymer with butyl acrylate, methacrylic acid and styrene	-	Use in appropriate amount according to production needs	0.05 (2-methyl-2-propenyl acrylate: SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
71	2-Methyl-2-propenoic acid, epoxidized methyl ester, polymer with ethylene and methyl acrylate	5154 1-08-3	Use in appropriate amount according to production needs	0.02(2-methyl-2-acrylate oxiranyl methyl ester: SML)	6 (in terms of acrylic acid)	22	When 2-methyl-2-propylene oxide methyl ester can react with the food or food simulant in contact, 0.02 mg/6 dm ² (QM) is used as its limit value
72	2-Methyl-2-propenoic acid, oxiranylmethyl ester, polymer with methyl acrylate and dichloroethylene	5497 5-10-9	Use in appropriate amount according to production needs	0.02 (2-methyl-2-acrylate oxiranyl methyl ester: SML); ND (1,1-dichloroethylene: SML, DL = 0.01 mg/kg) or 5 (1,1-dichloroethylene: QM)	6 (in terms of acrylic acid)	22	When 2-methyl-2-propylene oxide methyl ester can react with the food or food simulant in contact, 0.02 mg/6 dm ² (QM) is used as its limit value
73	2-Methyl-2-propenoic acid, oxiranylmethyl ester, polymer with vinyl chloride and vinyl acetate	2678 1-49-7	Use in appropriate amount according to production needs	0.02 (2-methyl-2-acrylate oxiranyl methyl ester: SML); ND (vinyl chloride: SML, DL = 0.01 mg/kg) or 1 (vinyl chloride: QM); 12			When 2-methyl-2-propylene oxide methyl ester can react with the food or food simulant in contact, 0.02 mg/6 dm ² (QM) is used as

				(vinyl acetate: SML)			its limit value
74	2-Hydroxyethyl-2-methyl-2-acrylate	868-77-9	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
75	2-Ethyl-2-hydroxymethyl-1,3-propanediol, polymer with 4,4'-diphenylmethane diisocyanate	27967-69-7	Use in appropriate amount according to production needs	6(2-ethyl-2-hydroxymethyl-1,3-propanediol/trimethylolpropane: SML); 1(4,4'-diphenylmethane diisocyanate: in terms of isocyanate, QM)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL = 0.01 mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
76	3α,4,7,7α-Tetrahydro-4,7-methylene-1H-indene, polymer with ethylene and propylene	25034-71-3	Use in appropriate amount according to production needs				
77	3-Aminopropyltriethoxysilane	919-30-2	Use in appropriate amount according to production needs	0.05(3-aminopropyltriethoxysilane:SML)			
78	3-Hydroxy-2-(hydroxymethyl)-2-methylpropionic acid	4767-03-7	Use in appropriate amount according to production needs	0.05[3-Hydroxy-2-(hydroxymethyl)-2-methylpropionic acid: SML]			If there is no corresponding migration detection method, 0.05mg/6dm ² (QM) can be used as the limit value.
79	4,4'-Diphenylmethane diisocyanate	101-68-8	Use in appropriate amount according to production needs	1(4,4'-diphenylmethane diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL= 0.01mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

80	4,4'- Diphenylmethane diisocyanate, polymer with hexanol and polyethylene glycol	—	Use in appropriate amount according to production needs	1(4,4'- diphenylmethane diisocyanate: in terms of isocyanate, QM)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL=0.01 mg/kg)	2;17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
81	4,4'- Difluorobenzopheno ne, polymer with hydroquinone	2965 8-26- 2	Use in appropriate amount according to production needs	0.05(4,4'- difluorobenzopheno ne:SML); 0.6(hydroquinone:S ML)			
82	4,4'- Dicyclohexylmethan e diisocyanate	5124- 30-1	Use in appropriate amount according to production needs	1(4,4'- dicyclohexylmethan e diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate,DL= 0.01mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
83	4,4'- Dihydroxydiphenylpr opane; Bisphenol A	80-05 -7	Use in appropriate amount according to production needs	0.05(4,4'- dihydroxydiphenylpr opane/bisphenol A:SML)			It shall not be used in the production of food contact materials and products for infants and young children

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
84	4,4'-Dihydroxydiphenylpropane, polymer with epichlorohydrin	25068-38-6	Use in appropriate amount according to production needs	0.05 (4,4' - dihydroxydiphenylpropane / bisphenol A : SML) ; ND (epichlorohydrin: SML, DL= 0.01mg/ kg) or 1 (epichlorohydrin: QM); 9mg/6dm ² [in terms of H ₂ O and BADGE·2H ₂ O: QM] or 9 [in terms of the sum of BADGE , BADGE·H ₂ O and BADGE·2H ₂ O: QM]:SML(T)]; 1 mg/6 dm ² [in terms of the sum of BADGE·HCl , BADGE·2HCl and BADGE·H ₂ O· HCl ; QM]or 1 [in terms of the sum of BADGE·HCl , BADGE·2HCl and BADGE·H ₂ O· HCl : SML (T)]			It shall not be used to produce food contact materials and products for infants and young children; Epichlorohydrin is easy to react with water-based food simulants, and its compliance can be verified by residual screening migration amount.
85	4,4'-Sulfonyldiphenol , polymer with 4,4'-dichlorodiphenyl sulfone; 4,4'-Sulfonyldiphenol , polymer with 1,1'-sulfonylbis(4-chlorobenzene)	25667-42-9, 25608-63-3	Use in appropriate amount according to production needs	0.05(4,4'-sulfonyldiphenol: SML);0.05[1,1'-Sulfonylbis(4-chlorobenzene): SML]			
86	5-Amino-1,3,3-trimethylcyclohexylamine	2855-13-2	Use in appropriate amount	6(5-amino-1,3,3-trimethylcyclohexylamine:SML)			

			according to production needs				
87	5-sulfo-isophthalic acid monosodium salt	6362-79-4	Use in appropriate amount according to production needs	5(5-sulfo-isophthalic acid monosodium salt: SML)			
88	C ₁₀ ~C ₁₆ -alcohol	6776-2-41-8	Use in appropriate amount according to production needs				
89	D-Sorbitol	50-70-4	Use in appropriate amount according to production needs				

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
90	N-(2-aminoethyl) ethanolamine	111-41-1	Use in appropriate amount according to production needs	0.05[N-(2-aminoethyl) ethanolamine:S ML]			The materials or products produced shall not be used in contact with oily foods
91	α-Methylstyrene, polymer with styrene	9011-11-4	Use in appropriate amount according to production needs				
92	ε-Caprolactam, polymer with poly(hexamethylene adipamide);ε-caprolactam, polymer with 1,6-adipic acid and 1,6-hexamethylenediamine	24993-04-2	Use in appropriate amount according to production needs	2.4(1,6-Hexanediamine: SML)	15(in terms of caprolactam)	4	
93	ε-Hydroxycaprolactone, polymer with 2,2-dimethyl-1,3-propanediol	69089-45-8	Use in appropriate amount according to production needs	0.05(2,2-dimethyl-1,3-propanediol: SML)	0.05 (in terms of 6-hydroxycaproic acid and caprolactone)	29	
94	Styrene	100-42-5	Use in appropriate amount according to production needs				

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95	Styrene, polymer with ethylhexyl acrylate and butyl acrylate	—	Use in appropriate amount according to production needs	0.05(Ethylhexyl acrylate:SML)	6 (in terms of acrylic acid)	22	
96	Styrene, polymer with methacrylic acid	9010-92-8	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	The use temperature of the produced materials or products shall not exceed 121℃
97	castor oil	8001-79-4	Use in appropriate amount according to production needs				
98	Castor oil, polymer with 4,4'-diphenylmethane diisocyanate and 2-ethyl-2-hydroxymethyl-1,3-propanediol	—	Use in appropriate amount according to production needs	1(4,4'-diphenylmethane diisocyanate: in terms of isocyanate, QM); 6(2-ethyl-2-hydroxymethyl-1,3-propanediol/trimethylolpropane: SML)	ND (in terms of isocyanate, DL=0.01 mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
99	Propyl alcohol ether	25265-71-8	Use in appropriate amount according to production needs				
100	Glycerol	56-81-5	Use in appropriate amount according to production needs				

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
101	Acetone	67-64-1	Use in appropriate amount according to production needs				
102	Acrylonitrile	107-13-1	Use in appropriate amount according to production needs	ND(Acrylonitrile:S ML,DL=0.01mg/kg)			
103	Acrylic acid	79-10-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
104	2-Hydroxyethyl Acrylate	818-61-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
105	2-Ethylhexyl acrylate	103-11-7	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate: SML)			
106	Acrylate, 2-ethylhexyl ester, polymer with vinyl acetate	25067-02-1	Use in appropriate amount according to production needs	0.05 (2-ethylhexyl acrylate, SML); 12 (vinyl acetate, SML)			Materials or products produced are intended only for room temperature filling and long-term storage at room temperature (including hot filling, pasteurization or other heat treatment)
107	Acrylate, 2-ethylhexyl, polymer with methyl methacrylate	25750-06-5	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate:SML)	6 (in terms of methacrylic acid)	23	

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	and styrene						
108	Butyl acrylate	141-32-2	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
109	Butyl acrylate homopolymer	9003-49-0	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
110	Butyl acrylate, polymer with 2-propenoic acid, 1,1-dimethylethyl ester and vinylbenzene	29497-08-3	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	The materials or products produced are only used in contact with water and oily foods
111	Butyl acrylate, polymer with styrene	25767-47-9	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
112	Butyl acrylate, polymer with 2-hydroxyethyl acrylate	32409-50-0	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
113	Butyl acrylate, polymer with 2-ethylhexyl acrylate and styrene	30795-23-4	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate: SML)	6 (in terms of acrylic acid)	22	
114	Butyl acrylate, polymer with 2-ethylhexyl acrylate and methyl acrylate	25916-29-4	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate: SML)	6 (in terms of acrylic acid)	22	
115	Butyl acrylate, polymer with isobutyl acrylate	30698-92-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
116	Butyl acrylate, polymer with 2-hydroxyethyl methacrylate, methacrylic acid, methyl methacrylate and styrene	36179-96-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
117	Butyl acrylate, polymer with butyl methacrylate, ethyl acrylate, methacrylic acid and methyl methacrylate	-	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
118	Butyl acrylate, polymer with methacrylic acid and styrene	25036-16-2	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

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119	Butyl acrylate, polymer with methyl methacrylate and 2-hydroxyethyl 2-methyl-2-acrylate	25951-39-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
120	Butyl acrylate, polymer with diallyl maleate, methyl methacrylate and trimethylolpropyl triacrylate	-	Use in appropriate amount according to production needs	6(2-ethyl-2-hydroxymethyl-1,3-propanediol/trimethylolpropane: SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
121	Ammonium salt of butyl acrylate, polymer with methylene succinic acid, methacrylic acid and styrene	—	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
122	Methyl acrylate	96-33-3	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
123	Methyl acrylate homopolymer hydrolyzed sodium salt	68037-46-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
124	Methyl acrylate, polymer with ethylene	25103-74-6	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
125	Ethyl acrylate	140-88-5	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
126	Ethyl acrylate, polymer with <i>N</i> -methylol-acrylamide	26428-44-4	Use in appropriate amount according to production needs	0.05(<i>N</i> -hydroxy methyl-acrylamide:SML)	6 (in terms of acrylic acid)	22	
127	Ethyl acrylate, polymer with 2-ethylhexyl acrylate	26376-86-3	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate:SML)	6 (in terms of acrylic acid)	22	

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128	Ethyl acrylate, polymer with methacrylic acid and styrene	25035-68-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
129	Ethyl acrylate, polymer with methyl methacrylate and <i>N</i> -methylol-acrylamide	25035-74-9	Use in appropriate amount according to production needs	0.05(<i>N</i> -hydroxy methyl-acrylamide:SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
130	Ethyl acrylate, polymer with methylene succinic acid	26124-80-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
131	Acrylic acid, polymer with 1,3-butadiene and styrene	25085-39-6	Use in appropriate amount according to production needs	ND (1,3-butadiene, SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid)	22	Only used to produce pressure-sensitive adhesives for indirect food contact; the materials or products produced are only used for room temperature filling and long-term storage at room temperature (including hot filling, pasteurization or other heat treatment)
132	Acrylic acid, polymer with C ₁₂ -C ₁₅ alkanol polyglycol ether	152261-36-4	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 6 (in terms of acrylic acid)	2;22	
133	Acrylic acid, polymer with styrene	25085-34-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
134	Acrylic acid, polymer with acrylonitrile, 2-ethylhexyl acrylate and styrene	40530-01-6	Use in appropriate amount according to production needs	ND (acrylonitrile: SML, DL = 0.01 mg/kg); 0.05(2-ethylhexyl	6 (in terms of acrylic acid)	22	

				acrylate:SML)			
135	Acrylic acid, polymer with acrylonitrile, butyl acrylate, methacrylamide and N-hydroxymethyl-methacrylamide	—	Use in appropriate amount according to production needs	ND(Acrylonitrile:SML,DL=0.01mg/kg);ND(methacrylamide: SML, DL = 0.01 mg/kg); 0.05(N-hydroxymethyl-methacrylamide:SML)	6 (in terms of acrylic acid)	22	
136	Acrylic acid, polymer with acrylonitrile, ethyl acrylate, 2-ethylhexyl acrylate, methyl acrylate and styrene	—	Use in appropriate amount according to production needs	ND (acrylonitrile: SML, DL = 0.01 mg/kg); 0.05(2-Ethylhexyl acrylate: SML)	6 (in terms of acrylic acid)	22	
137	ammonium salt of acrylic acid, polymer with butyl acrylate,1-methylvinylbenzene and methyl methacrylate	1579 37- 76-3	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
138	Acrylic acid, polymer with butyl acrylate, methacrylic acid and styrene	2512 0-19- 8	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
139	Acrylic acid, polymer with butyl acrylate and 2-hydroxyethyl acrylate	30585-48-9	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
140	Acrylic acid, polymer with butyl acrylate and ethyl acrylate	27322-15-2	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
141	Acrylic acid, polymer with sodium acrylate	9033-79-8	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
142	sodium salt of acrylic acid, polymer with ethyl acrylate and sodium sulfite	90066-14-1	Use in appropriate amount according to production needs		10 (in terms of sulfur dioxide); 6 (in terms of acrylic acid)	19;22	
143	sodium salt of acrylic acid, polymer with ethyl acrylate	26949-30-4	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
144	Acrylic acid, polymer with acrylamide, acrylonitrile, butyl acrylate, methacrylic acid, <i>N</i> -methoxymethyl-methacrylamide and styrene	—	Use in appropriate amount according to production needs	ND (acrylonitrile: SML, DL = 0.01 mg/kg); ND (acrylamide: SML, DL = 0.01 mg/kg); 0.05(<i>N</i> -methoxymethyl-methacrylamide: SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
145	Acrylic acid, polymer with acrylamide, butyl acrylate, methacrylic acid and styrene	121028-92-0	Use in appropriate amount according to production needs	ND (Acrylamide: SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

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					acid)		
146	sodium salt of acrylic acid, polymer with sodium phosphite	129898-01-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
147	Acrylic acid, polymer with ethylene, vinyl acetate and 2-ethylhexyl acrylate	72383-70-1	Use in appropriate amount according to production needs	0.05 (2-ethylhexyl acrylate: SML); 12 (vinyl acetate: SML)	6 (in terms of acrylic acid)	22	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
148	ammonium salt of acrylic acid, polymer with ethylene	25212-83-3	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
149	Acrylamide, polymer with acrylonitrile, ethyl acrylate and <i>N</i> -methylol-acrylamide	27082-48-0	Use in appropriate amount according to production needs	ND (acrylamide: SML, DL = 0.01 mg/kg); ND (acrylonitrile: SML, DL = 0.01 mg/kg); 0.05(<i>N</i> -hydroxymethyl-acrylamide:SML)	6 (in terms of acrylic acid)	22	
150	Acrylamide, polymer with butyl acrylate, ethyl acrylate, 2-ethylhexyl acrylate and <i>N</i> -methylol-acrylamide	-	Use in appropriate amount according to production needs	ND (acrylamide: SML, DL = 0.01 mg/kg); 0.05 (2-ethylhexyl acrylate: SML); 0.05(<i>N</i> -hydroxymethyl-acrylamide:SML)	6 (in terms of acrylic acid)	22	
151	Acrylamide, polymer with ethyl acrylate, methyl methacrylate and <i>N</i> -hydroxymethyl-acrylamide	30394-81-1	Use in appropriate amount according to production needs	ND (acrylamide: SML, DL = 0.01 mg/kg); 0.05(<i>N</i> -hydroxymethyl-acrylamide:SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
152	Acrylamide, polymer with ethyl acrylate and <i>N</i> -methylol-acrylamide	28433-25-2	Use in appropriate amount according to production needs	ND (acrylamide: SML, DL = 0.01 mg/kg); 0.05(<i>N</i> -hydroxymethyl-acrylamide:SML)	6 (in terms of acrylic acid)	22	
153	Polymer of propylene and 1-butene	29160-13-2	Use in appropriate amount according to				

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			production needs				
154	Graft polymer of propylene and maleic anhydride	25722-45-6, 107001-49-0	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
155	Polymer of propylene and ethylene	9010-79-1	Use in appropriate amount according to production needs				
156	Propylene, polymer with ethylene and 1-butene	25895-47-0	Use in appropriate amount according to production needs				
157	Cellulose Acetate Propionate	9004-39-1	Use in appropriate amount according to production needs				

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
158	Cellulose acetate butyrate	9004-36-8	Use in appropriate amount according to production needs				
159	Cellulose acetate	9004-35-7	Use in appropriate amount according to production needs				
160	Starch	9005-25-8	Use in appropriate amount according to production needs				
161	Butanol	71-36-3; 78-83-1; 78-92-2; 75-65-0	Use in appropriate amount according to production needs				
162	Terephthalic acid	100-21-0	Use in appropriate amount according to production needs		7.5 (in terms of terephthalic acid)	28	
163	Polymer of terephthalic acid (or its dimethyl ester) with isophthalic acid (or its dimethyl ester), 1,2-ethylene glycol and 2,2'-oxydiethanol	27027-87-8	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	
164	Polymer of terephthalic acid (or its dimethyl ester) with isophthalic acid (or its dimethyl ester) and 1,2-ethylene glycol	24938-04-3	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	

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165	Dimethyl terephthalate, polymer with 1,4-butanediol	30965-26-5	Use in appropriate amount according to production needs	0.6 (Tetrahydrofuran: SML)	7.5 (in terms of terephthalic acid); 5 (in terms of 1,4-butanediol)	28;30	The use temperature of the produced materials or products shall not exceed 121 °C
166	Dimethyl terephthalate, polymer with a mixture of 2,2,4-trimethyl-1,6-hexanediamine and 2,4,4-trimethyl-1,6-hexanediamine (in equal molar ratios)	9069-93-6; 26246-77-5	Use in appropriate amount according to production needs	0.05[2,2,4 (and 2,4,4)-trimethyl-1,6-hexanediamine: SML]	7.5 (in terms of terephthalic acid)	28	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
167	Terephthalic acid, polymer with 1,2-ethylene glycol and 2,2'-oxydiethanol	25052-77-1	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 7.5 (in terms of terephthalic acid)	2;28	
168	Terephthalic acid, polymer with 1,4-butanediol and 1,12-dodecanedioic acid	61778-68-5	Use in appropriate amount according to production needs	0.6 (Tetrahydrofuran: SML)	7.5 (in terms of terephthalic acid); 5 (in terms of 1,4-butanediol)	28;30	
169	Homopolymer of diphenylmethane diisocyanate	39310-05-9	Use in appropriate amount according to production needs	1(diphenylmethane diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
170	Diethylene glycol	111-46-6	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol)	2	
171	Diethylene glycol, polymer with 1,3-isobenzofurandione	32472-85-8	Use in appropriate amount according to		30 (in terms of ethylene glycol)	2	

			production needs				
172	Diethanolamine	111-42-2	Use in appropriate amount according to production needs	0.3(diethanolamine:SML)			
173	Homopolymers of C3-6 petroleum fractions rich in piperylene and polymers with one or more of the following monomers: isobutylene, styrene and alpha-methylstyrene	-	Use in appropriate amount according to production needs	0.05(α-methylstyrene, SML)			The use temperature of the produced materials or products shall not exceed 100°C
174	Sebacic acid	111-20-6	Use in appropriate amount according to production needs				
175	Sebacic acid, polymer with 2,2'-oxydiethanol, 1,2-ethylene glycol, isophthalic acid, 2,2'-dimethyl-1,3-propylene glycol and terephthalic acid	38497-35-7	Use in appropriate amount according to production needs	0.05(2,2-dimethyl-1,3-propanediol:SML)	30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	It shall not be used in contact with food with an ethanol content exceeding 8% (volume fraction)

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
176	Sodium salt of ammonium persulfate polymer with methacrylic acid	-	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
177	Propylene oxide	75-56-9	Use in appropriate amount according to production needs	1 (propylene oxide: QM) or ND (propylene oxide: SML, DL=0.01 mg/kg)			Propylene oxide reacts easily with water-based food simulants, and its compliance can be verified by residual screening migration amount.
178	Ethylene oxide	75-21-8	Use in appropriate amount according to production needs	1 (ethylene oxide: QM) or ND (ethylene oxide: SML, DL = 0.01 mg/kg)			Ethylene oxide reacts easily with water-based food simulants, and its compliance can be verified by residual screening and migration.
179	Cyclic-1,2-ethanediyl acetal polymer with 2,2'-oxybis[ethanol]	36890-68-3	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 0.05 (in terms of 6-hydroxycaproic acid and caprolactone)	2;29	

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180	Cyclic-1,2-ethanediyl acetal, polymer with 2-ethyl-2(hydroxymethyl)-1,3-propanediol	37625-56-2	Use in appropriate amount according to production needs	6(2-ethyl-2-hydroxymethyl-1,3-propanediol/trimethylolpropane: SML)	0.05 (in terms of 6-hydroxycaproic acid and caprolactone)	29	
181	Toluene diisocyanate; 1,3-diisocyanatotoluene	26471-62-5	Use in appropriate amount according to production needs	1(Toluene diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01mg/kg)	17	Only used in the production of PU adhesives; isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
182	Methanol	67-56-1	3				
183	Methacrylate	79-41-4	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
184	Methacrylate, 2-(dimethylamino)ethyl ester, polymer with methyl methacrylate	26222-42-4	Use in appropriate amount according to production needs	ND [2-(dimethylamino)ethyl methacrylate: SML, DL = 0.01 mg/kg]	6 (in terms of methacrylic acid)	23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/Q M mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
185	Ammonium methacrylate homopolymer	30875-88-8	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
186	Propylene methacrylate, polymer with butyl acrylate, methacrylic acid and methyl methacrylate	92124-73-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
187	Butyl Methacrylate	97-88-1	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
188	Butyl methacrylate, polymer with 2-ethylhexyl acrylate and methyl methacrylate	52383-91-2	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate: SML)	6 (in terms of methacrylic acid)	23	
189	Butyl methacrylate, polymer with butyl acrylate and methyl methacrylate	25322-99-0	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
190	Butyl methacrylate, polymer with methacrylic acid, methyl methacrylate and styrene	56793-67-0	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
191	Butyl methacrylate, polymer with methyl methacrylate	25608-33-7	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	

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192	Butyl methacrylate, polymer with methyl methacrylate and styrene	26634-89-9	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
193	Butyl methacrylate, polymer with methyl methacrylate and acrylic acid	26898-31-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
194	Butyl methacrylate, polymer with methyl methacrylate and hydroxypropyl methacrylate	67874-31-1	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
195	Butyl methacrylate, polymer with ethylene, methyl methacrylate and propylene	127104-68-1	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
196	Methyl Methacrylate	80-62-6	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
197	sodium salt of methyl methacrylate, styrene and 2-propenoic acid, polymer	112665-52-8	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
198	Methyl methacrylate homopolymer; Polymethyl methacrylate	9011-14-7	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
199	Methyl methacrylate, polymer with 1,3-butadiene, styrene and acrylonitrile	9010-94-0	Use in appropriate amount according to production needs	ND (1,3-butadiene: SML, DL = 0.01 mg/kg); ND (Acrylonitrile: SML, DL = 0.01 mg/kg)	6 (in terms of methacrylic acid)	23	

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200	Methyl methacrylate, polymer with 1,3-butadiene, vinylbenzene and ethyl acrylate	27965-85-1	Use in appropriate amount according to production needs	ND(1,3-Butadiene:SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
201	Methyl methacrylate, polymer with 1,3-butadiene and styrene	25053-09-2	Use in appropriate amount according to production needs	ND(1,3-Butadiene:SML, DL = 0.01 mg/kg)	6 (in terms of methacrylic acid)	23	
202	Methyl methacrylate, polymer with 2-propenoic acid	25322-25-2	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
203	Methyl methacrylate, polymer with 2-methyl-2-glycidyl acrylate and styrene	29564-58-7	Use in appropriate amount according to production needs	0.02(2-methyl-2-glycidyl acrylate:SML)	6 (in terms of methacrylic acid)	23	When 2-methyl-2-glycidyl acrylate can react with the food or food simulant in contact, 0.02 mg/6 dm ² (QM) is used as its limit value
204	Methyl methacrylate, polymer with styrene, 2-ethylhexyl acrylate, 1-methylvinylbenzene and 2-propenoic acid	112820-51-6	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate:SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
205	Methyl methacrylate, polymer with butyl acrylate, 2-hydroxyethyl acrylate and 2-propenoic acid	26062-01-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
206	Methyl methacrylate, polymer with butyl acrylate, vinyl acetate and 2-ethylhexyl acrylate	193542-91-5	Use in appropriate amount according to production needs	12(vinyl acetate, SML);0.05(2-ethylhexyl acrylate, SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	Materials or products produced are intended only for room temperature filling and long-term storage at room temperature (including hot filling, pasteurization or other

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							heat treatment)
207	Methyl methacrylate, polymer with butyl acrylate	25852-37-3	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
208	Methyl methacrylate, polymer with butyl acrylate, butyl methacrylate and 2-(dimethylamino)ethyl methacrylate	127573-73-3	Use in appropriate amount according to production needs	ND [2-(dimethylamino)ethyl methacrylate: SML, DL = 0.01 mg/kg]	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
209	ammonium salt of methyl methacrylate, polymer with methyl acrylate and 2-acrylic acid	38811-87-9	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
210	Methyl methacrylate, polymer with ethyl acrylate	9010-88-2	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
211	Methyl methacrylate, polymer with vinyl acetate and 2-ethylhexyl acrylate	26794-25-2	Use in appropriate amount according to production needs	12(vinyl acetate, SML);0.05(2-ethylhexyl acrylate, SML)	6 (in terms of methacrylic acid)	23	Materials or products produced are intended only for room temperature filling and long-term storage at room temperature (including hot filling, pasteurization or other heat treatment)
212	Methyl methacrylate, polymer with vinylbenzene, 2-ethylhexyl acrylate and methyl acrylate	74082-28-3	Use in appropriate amount according to production needs	0.05(2-Ethylhexyl acrylate, SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	Materials or products produced are intended only for room temperature filling and long-term storage at room temperature (including hot filling, pasteurization or other heat treatment)
213	Methyl methacrylate, polymer with vinylbenzene and methacrylic acid	25035-81-8	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	

214	Glycidyl Methacrylate	106-91-2	Use in appropriate amount according to production needs	0.02(SML)			Glycidyl methacrylate reacts easily with water-based food simulants, and its compliance can be verified by residual screening migration
215	Ethyl Methacrylate	97-63-2	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
216	ammonium salt of methacrylic acid, polymer with butyl acrylate, styrene, (1-methylvinyl)benzene and methyl methacrylate	665004-50-2	Use in appropriate amount according to production needs	0.05(2-phenylpropene:SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
217	Methacrylic acid, polymer with butyl acrylate, styrene, 2-ethylhexyl acrylate and methyl methacrylate	82539-93-3	50	0.05(2-Ethylhexyl acrylate, SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
218	ammonium salt of methacrylic acid, polymer with butyl acrylate, ethyl acrylate and methyl methacrylate	63120-11-6	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
219	Methacrylic acid, polymer with butyl-2-propenoic acid, styrene, methyl methacrylate and 2-propenoic acid	56385-39-8	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
220	Methacrylic acid, polymer with butyl methacrylate	26284-14-0	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
221	Methacrylic acid, polymer with butyl methacrylate and methyl methacrylate	28262-63-7	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
222	Methacrylic acid, polymer with methyl methacrylate	25086-15-1	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
223	Methacrylic acid, polymer with methyl methacrylate and methyl acrylate	26936-24-3	Use in appropriate amount according to		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	The use temperature of the produced materials or products shall not exceed

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			production needs				100℃
224	ammonium salt of methacrylic acid, polymer with methyl methacrylate	604 74- 81-9	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
225	Methacrylamide	79- 39-0	Use in appropriate amount according to production needs	ND(met hacryla mide:S ML, DL = 0.01 mg/kg)			
226	Melamine, polymer with formaldehyde, methylated	680 02- 20-0	Use in appropriate amount according to production needs	2.5 (Melami ne: SML)	15(in terms of formaldehyde)	15	When used in the production of food contact materials and products for infants and young children, the SML of melamine is 1 mg/kg

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
227	Methylhydrogensiloxane and polysiloxane	63148-57-2	Use in appropriate amount according to production needs				
228	Formaldehyde	50-00-0	Use in appropriate amount according to production needs		15(in terms of formaldehyde)	15	
229	Formaldehyde, polymer with cyclohexanone	25054-06-2	Use in appropriate amount according to production needs		15(in terms of formaldehyde)	15	The materials or products produced shall not be used in contact with food containing alcohol or oil.
230	Isophthalic acid	121-91-5	Use in appropriate amount according to production needs		5(in terms of isophthalic acid)	27	
231	Isophthalic acid, terephthalic acid, polymer with 1,2-ethylene glycol and azelaic acid	26336-35-6	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	
232	Isophthalic acid, polymer with terephthalic acid, 2,2-dimethyl-1,3-propanediol, 1,2-ethylene glycol and 1,6-hexanediol	40471-06-5	Use in appropriate amount according to production needs	0.05(2, 2-dimethyl-1,3-propanediol: SML);0.05(1,6-	30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	

				hexane diol: SML)			
233	Isophthalic acid, polymer with terephthalic acid, 2,2-dimethyl-1,3-propanediol and 1,2-ethylene glycol	27923-68-8	Use in appropriate amount according to production needs	0.05(2, 2-dimethyl-1,3-propanediol:S ML)	30 (in terms of ethylene glycol); 5 (in terms of isophthalic acid); 7.5 (in terms of terephthalic acid)	2;27;28	The materials or products produced shall not be used in contact with food containing more than 8% ethanol (volume fraction)
234	Poly (2,6-dimethyl-1,4-phenyl ether)	25134-01-4	Use in appropriate amount according to production needs	0.05(2, 6-dimethyl-1,4-phenol: SML)			
235	Polypropylene glycol	25322-69-4	Use in appropriate amount according to production needs				
236	Polyethyl acrylate	9003-32-1	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
237	Polyazacyclotridecan-2-one	25038-74-8	Use in appropriate amount according to production needs	5(Azacyclotridecan-2-one:SM L)			

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
238	Polybutylene Succinate	25777-14-4	Use in appropriate amount according to production needs		5(in terms of 1,4-butanediol)	30	The use temperature of the produced materials or products shall not exceed 100℃
239	Block copolymer of polybutylene terephthalate and polytetramethylene ether and maleic anhydride	1224447-95-3	Use in appropriate amount according to production needs	0.6 (Tetrahydrofuran: SML)	30 (in terms of maleic acid); 7.5 (in terms of terephthalic acid); 5 (in terms of 1,4-butanediol)	3;28;30	The average molecular weight is not less than 100000Da; Maleic anhydride modification amount is less than 1%
240	Polyethylene terephthalate	25038-59-9	Use in appropriate amount according to production needs		30 (in terms of ethylene glycol); 7.5 (in terms of terephthalic acid)	2;28	
241	Polydimethylsiloxane	63148-62-9; 9016-00-6	Use in appropriate amount according to production needs				Molecular weight not less than 6800Da
242	Poly(dimethylsiloxane) and phenylsilsesquioxane	73138-88-2	Use in appropriate amount according to production needs				

243	Polymerized rosin	65997-05-9	Use in appropriate amount according to production needs				
244	Sodium polymethacrylate	54193-36-1	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
245	Poly(lactic acid)	9051-89-2	Use in appropriate amount according to production needs				The use temperature of the produced materials or products shall not exceed 100 °C
246	Poly(ethylene glycol) polymer with 4,4'-dicyclohexylmethane diisocyanate terminated with 1-decanol	70879-50-4	Use in appropriate amount according to production needs	1(4,4'-dicyclohexylmethane diisocyanate: in terms of isocyanate, QM); 1(ethylene oxide: QM) or ND(ethylene oxide: SML, DL=0.01mg/kg)	30 (in terms of ethylene glycol); ND (in terms of isocyanate, DL=0.01mg/kg)	2;17	Isocyanates and ethylene oxide react easily with water-based food simulants, and their compliance can be verified by residual screening and migration.
247	Polyethylene glycol, polymer with 4,4'-dicyclohexylmethane diisocyanate	39444-87-6	Use in appropriate amount according to production needs	1(4,4'-dicyclohexylmethane diisocyanate: in terms of isocyanate, QM)		2;17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
248	Polyvinyl acetate	9003-20-7	Use in appropriate amount according to production needs	12(vinyl acetate:SML)			
249	Phthalate	88-99-3	Use in appropriate amount according to production needs				
250	Phthalic anhydride	85-44-9	Use in appropriate amount according to production needs				
251	Phosphoric acid	7664-38-2	Use in appropriate amount according to production needs				
252	Sulfuric acid	7664-93-9	Use in appropriate amount according to production needs				
253	Homopolymer of hexamethylene diisocyanate	28182-81-2	Use in appropriate amount according to production needs	1(Hexamethylene diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01 mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
254	Polymer of vinyl chloride and vinyl acetate	9003-22-9	Use in appropriate amount according to production needs	12 (vinyl acetate: SML); ND (vinyl chloride: SML, DL = 0.01 mg/kg) or 1 (vinyl chloride,			

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				QM)			
255	sodium salt of naphthalenesulfonic acid, polymer with formaldehyde	9084-06-4	Use in appropriate amount according to production needs		15(in terms of formaldehyde)	15	
256	Urea, polymer with formaldehyde and isobutyl alcohol	68002-18-6	Use in appropriate amount according to production needs		15(in terms of formaldehyde)	15	
257	Hydroxy-terminated polydimethylsiloxane ; Hydroxy-terminated dimethyl (siloxane and polysiloxane)	70131-67-8	Silicone adhesive: Use in appropriate amount according to production needs				
258	Hydroxyethyl cellulose	9004-62-0	Use in appropriate amount according to production needs				
259	Hydrogenated paraffin wax	64742-51-4	Use in appropriate amount according to production needs				

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage%	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
260	Hydrogenated aromatic petroleum hydrocarbon resin	88526-47-0	Use in appropriate amount according to production needs				Made from aromatic substituted olefins in cracked petroleum fractions with a boiling point not higher than 220°C through catalytic or thermal polymerization, distillation, hydrogenation reduction and other processes; softening temperature shall not be lower than 110°C; aniline point shall not be lower than 107°C; the total amount of aromatic monomer residues shall not exceed 50mg/kg
261	Hydrogenated resin acid and rosin acid glyceryl esters	65997-13-9	Use in appropriate amount according to production needs				
262	Hydrogenated resin acid and methyl rosin acid ester	8050-15-5	Use in appropriate amount according to production needs				
263	Hydrogenated rosin	65997-06-0	Use in appropriate amount according to production needs				
264	Pentaerythritol Hydrogenated Rosin Ester	64365-17-9	Use in appropriate amount according to production needs				
265	Ammonium hydroxide	1336-21-6	Use in appropriate amount according to production needs				

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266	Sodium hydroxide	1310-73-2	Use in appropriate amount according to production needs				
267	Melamine, polymer with butylated formaldehyde	68002-25-5	Use in appropriate amount according to production needs	2.5 (Melamine: SML)	15 (in terms of formaldehyde)	15	When used in the production of food contact materials and products for infants and young children, the SML of melamine is 1 mg/kg
268	Melamine, polymer with formaldehyde	9003-08-1	Use in appropriate amount according to production needs	2.5 (Melamine: SML)	15 (in terms of formaldehyde)	15	When used in the production of food contact materials and products for infants and young children, the SML of melamine is 1 mg/kg

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML (T) Group No.	Other requirements
269	Trihydroxy Polyoxypropylene Ether	25791-96-2	Use in appropriate amount according to production needs	1 (propylene oxide: QM) or ND(propylene oxide: SML, DL = 0.01 mg/kg)		It is only used to produce adhesives that are in indirect contact with food and there should be an effective barrier layer between it and the food; the materials or products produced are limited to contact with dry food; the average molecular weight of trihydroxy polyoxypropylene ether is not less than 250Da; propylene oxide is easy to react with water-based food simulants, and its compliance can be verified by residual screening migration.
270	Triethanolamine	102-71-6	Use in appropriate amount according to production needs	0.05(Triethanolamine:SML)		
271	Triisopropanolamine	122-20-3	Use in appropriate amount according to production needs	5(Triisopropanolamine:SML)		
272	Edible vegetable oil	-	Use in appropriate amount according to production needs			

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273	Resin acid and rosin acid; Pentaerythritol rosinate	8050- 26-8	Use in appropriate amount according to production needs			
274	Bisphenol A diglycidyl ether homopolymer	25085- 99-8	Use in appropriate amount according to production needs	0.05 (4,4'- dihydroxydiphenylpro- pane/ bisphenol A: SML); 9 mg/6 dm ² [in terms of the sum of BADGE, BADGE·H ₂ O and BADGE·2H ₂ O: QM] or 9 [BADGE, BADGE·H ₂ O and BADGE·2H ₂ O: SML(T)]; 1mg/6dm ² [in terms of the sum of BADGE·HCl, BADGE·2HCl and BADGE·H ₂ O·HCl; QM] or 1 [in terms of the sum of BADGE·HCl, BADGE·2HCl and BADGE·H ₂ O·HCl: SML(T)]		It shall not be used in the production of food contact materials and products for infants and young children

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
275	Maleic acid	110-16-7	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
276	Maleic anhydride	108-31-6	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
277	Maleic anhydride modified polypropylene	119415-04-2	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
278	Ammonium salt of maleic anhydride polymer with styrene	26022-09-3	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
279	Maleic acid, polymer with 1,3-butadiene, styrene, acrylonitrile and 2-propenoic acid	208448-02-6	Use in appropriate amount according to production needs	0.05 (butenoic acid: SML); ND (1,3-butadiene: SML, DL = 0.01mg/kg); ND (acrylonitrile: SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid)	22	If there is no corresponding detection method for the migration of butenoic acid, 0.05 mg/6dm ² (QM) can be used as its limit value.
280	Maleic acid, polymer with 1,3-butadiene, styrene, methylene succinic acid and	153085-93-9	Use in appropriate amount according to production needs	0.05 (butenoic acid: SML); ND (1,3-butadiene: SML, DL = 0.01 mg/kg);			If there is no corresponding detection method for the migration of butenoic acid, 0.05 mg/6 dm ² (QM) can

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	acrylonitrile			ND (acrylonitrile: SML, DL = 0.01 mg/kg)			be used as its limit value.
281	Tetrafluoroethylene homopolymer; polytetrafluoroethylene	9002- 84-0	Use in appropriate amount according to production needs	0.05(Tetrafluoroethylene:SML)			The use temperature of the produced materials or products shall not exceed 250℃
282	Polymer of tetrafluoroethylene and hexafluoropropylene	25067- 11-2	Use in appropriate amount according to production needs	0.05(tetrafluoroethylene: SML); 0.01(hexafluoropropylene: SML)			
283	Tetrahydrofuran	109-99 -9	Use in appropriate amount according to production needs	0.6 (Tetrahydrofuran: SML)			
284	Rosin	8050- 09-7	Use in appropriate amount according to production needs				
285	Glycerol ester of rosin	8050- 31-5	Use in appropriate amount according to production needs				
286	Methylene succinic Acid	97-65- 4	Use in appropriate amount according to production needs				

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
287	Methylene succinic acid, polymer with 1,3-butadiene, styrene, acrylonitrile and 2-propenoic acid	118948-85-9	Use in appropriate amount according to production needs	ND (1,3-butadiene: SML, DL = 0.01 mg/kg); ND (acrylonitrile: SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid)	22	
288	Methylene succinic acid, polymer with 1,3-butadiene, styrene and 2-hydroxyethyl acrylate	36089-06-2	Use in appropriate amount according to production needs	ND (1,3-butadiene: SML, DL=0.01 mg/kg); 6(2-hydroxyethyl acrylate: SML)			
289	Methylene succinic acid, polymer with 1,3-butadiene, vinylbenzene and 2-propenoic acid	26102-56-7	Use in appropriate amount according to production needs	ND(1,3-Butadiene:SML, DL = 0.01 mg/kg)	6 (in terms of acrylic acid)	22	
290	Methylene succinic acid, polymer with ethyl acrylate and methyl methacrylate	24980-96-9	Use in appropriate amount according to production needs		6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
291	Homopolymer of ethylene oxide	68441-17-8	Use in appropriate amount according to production needs	1 (ethylene oxide: QM) or ND (ethylene oxide: SML, DL=0.01 mg/kg)			Ethylene oxide is easy to react with water-based food simulants, and its compliance can

							be verified by residual screening migration amount.
292	Ethanolamine	141-43-5	Use in appropriate amount according to production needs	0.05(ethanolamine:SML)			The materials or products produced shall not be used in contact with oily foods
293	Ethylated methylated formaldehyde, polymer with 6-phenyl-1,3,5-triazine-2,4-diamine; butylated urea, polymer with formaldehyde	68002-19-7; 68037-08-1	Use in appropriate amount according to production needs		15(in terms of formaldehyde)	15	
294	Sodium acetate	127-09-3	Use in appropriate amount according to production needs				
295	Vinyl acetate	108-05-4	Use in appropriate amount according to production needs	12(vinyl acetate:SML)			

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
296	Vinyl acetate, polymer with vinyl chloride, fumaric acid and glycidyl methacrylate; vinyl acetate, polymer with vinyl chloride, fumaric acid and 2-methyl-2-acrylate oxiranylmethyl ester		Use in appropriate amount according to production needs	12 (vinyl acetate: SML); ND (vinyl chloride: SML, DL = 0.01 mg/kg) or 1 (vinyl chloride: QM); 0.02 (2-methyl-2-acrylate oxiranylmethyl ester: SML)			Glycidyl methacrylate is easy to react with water-based food simulants, and its compliance can be verified by residual screening migration amount; when 2-methyl-2-propylene oxide methyl ester reacts with the food or food simulant in contact, 0.02mg/6dm ² (QM) can be used as its limit value
297	Vinyl acetate, polymer with vinyl chloride and vinyl alcohol	25086-48-0	Use in appropriate amount according to production needs	12(vinyl acetate: SML); ND(vinyl chloride:SML, DL = 0.01 mg/kg) or 1 (vinyl chloride, QM)			
298	Vinyl acetate, polymer with vinyl alcohol	25213-24-5	Use in appropriate amount according to production needs	12(vinyl acetate:SML)			
299	Ethylene	74-85-1	Use in appropriate amount according to production needs				

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300	Vinyl alcohol homopolymer	9002-89-5	Use in appropriate amount according to production needs	12(vinyl acetate:SML)			The materials or products produced are only used for contact with oils and dry foods with low moisture content, and the use temperature shall not exceed 100°C
301	Ethylene-vinyl acetate polymer	24937-78-8	Use in appropriate amount according to production needs	12(vinyl acetate:SML)			
302	Ethylene, polymer with 1-butene	9019-29-8	Use in appropriate amount according to production needs				
303	Ethylene, polymer with 1-butene and maleic anhydride	63625-36-5	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
304	Ethylene, polymer with 1-butene and maleic anhydride	107137-84-8	Use in appropriate amount according to production needs		30	3	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
305	Ethylene, polymer with 1-hexene, propylene and maleic anhydride	85023-55-8	Use in appropriate amount according to production needs	3(Hexene:S ML)	30 (in terms of maleic acid)	3	
306	Ethylene, polymer with 1-hexene	25213-02-9	Use in appropriate amount according to production needs	3(Hexene:S ML)			
307	Ethylene, polymers with 1-hexene, reaction products with maleic anhydride	108388-93-8	Use in appropriate amount according to production needs	3(Hexene:S ML)	30 (in terms of maleic acid)	3	
308	Ethylene, polymer with 1-hexene and 1-butene	60785-11-7	Use in appropriate amount according to production needs	3(Hexene:S ML)			
309	Ethylene, polymer with 1-octene	26221-73-8	Use in appropriate amount according to production needs	15(Octene:S ML)			
310	Ethylene, polymer with 1-octene and maleic anhydride	85244-45-7	Use in appropriate amount according to production needs	15(Octene:S ML)	30 (in terms of maleic acid)	3	
311	Ethylene, polymers with 1-octene, reaction products with maleic anhydride	114571-44-7	Use in appropriate amount according to production needs	15(Octene:S ML)	30 (in terms of maleic acid)	3	
312	Sodium salt of ethylene, polymer with 2-propenoic acid	25750-82-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
313	Lithium salt of ethylene -2-propenoic acid polymer	25702-94-7	Use in appropriate amount according to production needs	0.6 (lithium: SML)	6 (in terms of acrylic acid)	22	

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314	Ethylene, polymer with 2-methylpropenoic acid	25053-53-6	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
315	Sodium salt of ethylene and 2-methacrylic acid polymer	25608-26-8	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
316	Ethylene, polymer with propylene and 1-hexene	25895-46-9	Use in appropriate amount according to production needs	3(Hexene:S ML)			

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
317	Ethylene, polymer with propylene and 5-ethylidene-2-norbornene	25038-36-2	Use in appropriate amount according to production needs	0.05(5-ethylidene-2-norbornene : SML)			
318	Ethylene, polymer with propylene and maleic anhydride	106177-14-4	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
319	Ethylene, polymer with propylene and maleic anhydride	31069-12-2	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
320	Zinc salt of polymer of ethylene and acrylic acid	28208-80-2	Use in appropriate amount according to production needs	5 (in terms of zinc: SML)	6 (in terms of acrylic acid)	22	
321	Ethylene, polymer with butyl acrylate	25750-84-9	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
322	Ethylene, polymer with butyl acrylate and maleic anhydride	64652-60-4	Use in appropriate amount according to production needs		30 (in terms of maleic acid); 6 (in terms of acrylic acid);	3;22	
323	Ethylene, polymer with butyl acrylate and carbon monoxide	61843-70-7	Use in appropriate amount according to production needs		6 (in terms of acrylic acid)	22	
324	Ethylene, polymer with methyl acrylate and maleic anhydride	88450-35-5	Use in appropriate amount according to production needs		30 (in terms of maleic acid); 6 (in terms of acrylic acid)	3;22	

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325	Ethylene, polymer with ethyl acrylate	9010-86-0	Use in appropriate amount according to production needs	6 (in terms of acrylic acid)	22	
326	Sodium salt of ethylene, polymer with methacrylic acid and butyl acrylate	52255-42-2	Use in appropriate amount according to production needs	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
327	Ethylene, polymer with methacrylic acid and isobutyl acrylate	37433-35-5	Use in appropriate amount according to production needs	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
328	Potassium salt of ethylene polymer with methacrylic acid and isobutyl acrylate	93228-27-4	Use in appropriate amount according to production needs	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
329	Zinc salt of ethylene, polymer with methacrylic acid and isobutyl acrylate	61843-71-8	Use in appropriate amount according to production needs	5 (in terms of zinc: SML)	6 (in terms of acrylic acid); 6 (in terms of methacrylic acid)	22;23	
330	Potassium salt of ethylene, polymer with methacrylic acid	26376-80-7	Use in appropriate amount according to production needs		6 (in terms of methacrylic acid)	23	
331	Zinc salt of ethylene-methacrylic acid polymer	28516-43-0	Use in appropriate amount according to production needs	5 (in terms of zinc: SML)	6 (in terms of methacrylic acid)	23	
332	Ethylene, polymer with glycidyl methacrylate	26061-90-5	Use in appropriate amount according to production needs	0.02(Glycidyl methacrylate: SML)	6 (in terms of methacrylic acid)	23	
333	Modified polymer of ethylene and maleic anhydride	9006-26-2	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
334	Graft polymer of ethylene and maleic anhydride	106343-08-2	Use in appropriate amount according to production needs		30 (in terms of maleic acid)	3	
335	Ethylene, polymer with maleic anhydride and 1-hexene	86286-09-1	Use in appropriate amount according to production needs	3(Hexene: SML)	30 (in terms of maleic acid)	3	
336	Ethylene, polymer with vinyl acetate and methacrylic acid	26375-31-5	Use in appropriate amount according to production needs	12(vinyl acetate: SML)	6 (in terms of methacrylic acid)	23	

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337	Ethylene, polymer with vinyl acetate and maleic anhydride	28064-24-6	Use in appropriate amount according to production needs	12(vinyl acetate:S ML)	30 (in terms of maleic acid)	3	
338	Ethylene, polymer with vinyl acetate and carbon monoxide	26337-35-9	Use in appropriate amount according to production needs	12(vinyl acetate:S ML)			
339	Isophorone diisocyanate;1,3,3-trimethyl-5-isocyanato-1-isocyanatomethylcyclohexane	4098-71-9	Use in appropriate amount according to production needs	1(Isophorone diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.

Table B.1 Basic raw materials and usage requirements allowed for adhesives for indirect food contact (continued)

Serial number	Chinese name	CAS Number	Maximum usage %	SML/QM mg/kg	SML(T) mg/kg	SML(T) Group No.	Other requirements
340	Isophorone diisocyanate homopolymer	53880-05-0	Use in appropriate amount according to production needs	1(Isophorone diisocyanate: in terms of isocyanate, QM)	ND (in terms of isocyanate, DL=0.01mg/kg)	17	Isocyanates are prone to react with water-based food simulants, and their compliance can be verified by residual screening and migration.
341	Steam cracked light aromatic naphtha and steam cracked light aromatic naphtha rich in 1,3-pentadiene and steam cracked medium aromatic naphtha	68527-25-3	60				



中华人民共和国国家标准

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食品安全国家标准 食品接触材料及制品用黏合剂

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食品安全国家标准

食品接触材料及制品用黏合剂

1 范围

本标准适用于食品接触材料及制品用黏合剂。

2 术语和定义

2.1 食品接触材料及制品用黏合剂

食品接触材料及制品中,通过物理或化学方式产生胶接作用的,直接或间接与食品接触的材料。

3 产品分类

根据是否与食品直接接触,食品接触材料及制品用黏合剂可分为两类:

- 直接接触食品用黏合剂:用于食品接触材料及制品的食品接触面,预期直接与食品接触的黏合剂。
- 间接接触食品用黏合剂:用于食品接触材料及制品的非食品接触面,预期不与食品直接接触,但其成分可能转移到食品中的黏合剂。

4 基本要求

4.1 食品接触材料及制品用黏合剂应符合 GB 4806.1 的规定。

4.2 食品接触材料及制品用黏合剂生产企业应通过配方设计、原料选择、生产过程控制、产品信息传递等方式控制黏合剂产品的安全风险。

4.3 食品接触材料及制品用黏合剂使用企业应通过接缝和边缘等包装设计、增加有效阻隔层、固化过程控制、产品信息传递等方式控制来源于黏合剂的安全风险;在达到预期效果的情况下应尽可能减少黏合剂的使用量和残留量。

5 技术要求

5.1 原料要求

5.1.1 直接接触食品用黏合剂基础原料的使用应符合附录 A 及相关公告的要求。间接接触食品用黏合剂基础原料的使用应符合附录 A、附录 B 及相关公告的要求。

5.1.2 食品接触材料及制品用黏合剂添加剂的使用应符合 GB 9685 及相关公告的要求。直接接触食品用黏合剂所使用的添加剂也可用于间接接触食品用黏合剂。

5.2 感官要求

直接接触食品用黏合剂层的感官要求应符合表 1 的规定。

表 1 感官要求

项目	要求
感官	色泽正常,无异臭、不洁物等
浸泡液	迁移试验所得浸泡液无着色、浑浊、沉淀、异臭等感官性能的劣变

5.3 理化指标

5.3.1 通用理化指标

黏合剂层的通用理化指标应符合表 2 的规定。

表 2 通用理化指标

项目	指标	检测方法
总迁移量 ^a /(mg/dm ²) ^b	≤ 10	GB 31604.8
高锰酸钾消耗量 ^a /(mg/kg) 水(60℃,2h)	≤ 10	GB 31604.2
重金属(以Pb计) ^a /(mg/kg) 4%乙酸(体积分数)(60℃,2h)	≤ 1	GB 31604.9
芳香族伯胺迁移总量 ^c /(mg/kg)	不得检出 (检出限=0.01 mg/kg)	GB 31604.52
^a 仅适用于直接接触食品用黏合剂层。对于间接接触食品的黏合剂层,该项目按直接接触食品层相应食品安全国家标准的规定执行。 ^b 婴幼儿专用食品接触材料及制品用黏合剂应根据实际使用中的面积体积比将结果换算为 mg/kg,且限量为 ≤60 mg/kg。 ^c 仅适用于含有芳香族聚氨酯等可能产生芳香族伯胺的黏合剂。应在黏合剂固化反应完成后,对食品接触材料及制品终产品开展芳香族伯胺的迁移量检测。本标准附录 A、附录 B、GB 9685 及相关公告中规定了迁移限量的芳香族伯胺,其限量按照相关规定执行。		

5.3.2 其他理化指标

5.3.2.1 食品接触材料及制品用黏合剂应符合附录 A、附录 B 及相关公告对基础原料的特定迁移限量(SML)、特定迁移总量限量[SML(T)]、最大残留量(QM)等理化指标的规定。

5.3.2.2 食品接触材料及制品用黏合剂应符合 GB 9685 及相关公告对添加剂的 SML、SML(T)、QM 等理化指标的规定。

6 其他

6.1 迁移试验

迁移试验应按 GB 31604.1 和 GB 5009.156 的规定执行,本标准有特殊规定的除外。

6.2 标签标识

6.2.1 标签标识应符合 GB 4806.1 的规定。

6.2.2 黏合剂产品应在标签上标示产品类别(直接接触食品用黏合剂、间接接触食品用黏合剂)。

附 录 A
直接接触食品用黏合剂允许使用的基础原料及使用要求

A.1 表 A.1 规定了直接接触食品用黏合剂允许使用的基础原料名单及使用要求。表 A.1 中列出的基础原料以 CAS 号为准,没有 CAS 号的以中文名称为准。

A.2 GB 9685 中特定迁移总量限量[SML(T)]及 SML(T)分组编号适用于本标准。

A.3 表 A.1 中聚合物合成所使用单体及其他起始物为酸、醇或酚类物质的,其钠盐、钾盐和钙盐(包括酸式盐和复盐)也可在相应聚合物的合成中使用,并应符合相应的酸、醇或酚类单体及其他起始物的限制性要求;表 A.1 已列出的单体及其他起始物的钠盐、钾盐和钙盐(包括酸式盐和复盐),其使用应按本标准规定执行。

表 A.1 直接接触食品用黏合剂允许使用的基础原料及使用要求

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
1	(2E)-2-丁烯二酸与1,3-丁二烯、苯乙烯、甲基丙烯酸甲酯、丙烯腈和2-丙烯酸酯的聚合物	85600-91-5	按生产需要适量使用	0.05(丁烯酸:SML); ND(1,3-丁二烯:SML,DL=0.01 mg/kg); ND(丙烯腈:SML,DL=0.01 mg/kg)	6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	无相应的丁烯酸迁移量检测方法时可使用0.05 mg/6 dm ² (QM)作为其限量值
2	(Z,Z)-α-(1-氧代-9-烯十八烷基)-ω-[(1-氧代-9-烯十八烷基)氧代]聚氧乙烯	9005-07-6	按生产需要适量使用	30{(Z,Z)-α-(1-氧代-9-烯十八烷基)-ω-[(1-氧代-9-烯十八烷基)氧代]聚氧乙烯:SML}			生产的材料或制品使用温度不得高于100℃
3	[(乙烷基二甲硅基)氧基和改性(三甲硅基)氧基]硅烷	68988-89-6	按生产需要适量使用				
4	1,2-丙二醇与癸二酸的聚合物	26222-20-8	按生产需要适量使用				
5	1-丁烯均聚物;聚1-丁烯	9003-28-5	按生产需要适量使用				
6	2-丙烯酸与苯乙烯和(1-甲基乙烯基)苯的聚合物铵盐	89678-90-0	按生产需要适量使用	0.05[(1-甲基乙烯基)苯:SML]	6(以丙烯酸计)	22	

表 A.1 直接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
7	2-甲基-2-丙烯酸-2-丙烯酸酯与丙烯腈、甲基丙烯酸、甲基丙烯酸甲酯和苯乙烯的共聚物	—	按生产需要适量使用	0.05 (2-甲基-2-丙烯酸-2-丙烯酸酯: SML), ND (丙烯腈: SML, DL = 0.01 mg/kg)	6 (以甲基丙烯酸计)	23	
8	α -硫代- ω -(支链与直链)十一烷氧基聚(氧基-1, 2-乙二基)钠盐	219756-63-5	按生产需要适量使用				
9	α -异十三烷基- ω -羟基聚(氧-1,2-亚乙基)	9043-30-5	按生产需要适量使用	1 (环氧乙烷: QM) 或 ND (环氧乙烷: SML, DL=0.01 mg/kg)			环氧乙烷易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
10	苯酚与甲醛的聚合物	9003-35-4	按生产需要适量使用	3.0 (苯酚: SML)	15 (以甲醛计)	15	
11	苯乙烯均聚物; 聚苯乙烯	9003-53-6	按生产需要适量使用				
12	苯乙烯与 1,3-丁二烯的聚合物	9003-55-8	按生产需要适量使用	ND (1, 3-丁二烯: SML, DL = 0.01 mg/kg)			
13	苯乙烯与 2-甲基-1,3-丁二烯的聚合物	25038-32-8	按生产需要适量使用	ND (2-甲基-1,3-丁二烯, DL=0.01 mg/kg: SML) 或 1 (2-甲基-1,3-丁二烯: QM)			
14	苯乙烯与丙烯酸丁酯和丙烯酸的共聚物	25586-20-3	按生产需要适量使用		6 (以丙烯酸计)	22	
15	丙烯腈和 1,3-丁二烯与苯乙烯的三元共聚物	9003-56-9	按生产需要适量使用	ND (丙烯腈: SML, DL = 0.01 mg/kg); ND (1, 3-丁二烯: SML, DL=0.01 mg/kg)			
16	丙烯腈与 1,3-丁二烯的聚合物; 丁腈橡胶	9003-18-3	按生产需要适量使用	ND (丙烯腈: SML, DL = 0.01 mg/kg); ND (1, 3-丁二烯: SML, DL = 0.01 mg/kg)			

表 A.1 直接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
17	丙烯腈与丙烯酸-2-乙基己酯、甲基丙烯酸和苯乙烯的共聚物	26873-77-8	按生产需要适量使用	ND(丙烯腈:SML,DL=0.01 mg/kg); 0.05 (丙烯酸-2-乙基己酯:SML)	6(以甲基丙烯酸计)	23	
18	丙烯腈与丙烯酸丁酯和 N-羟甲基-甲基丙烯酰胺的共聚物	29434-28-4	按生产需要适量使用	ND(丙烯腈:SML,DL=0.01 mg/kg); 0.05 (N-羟甲基-甲基丙烯酰胺:SML)	6(以丙烯酸计)	22	
19	丙烯腈与丙烯酸乙酯的聚合物	25053-12-7	按生产需要适量使用	ND(丙烯腈:SML,DL=0.01 mg/kg)	6(以丙烯酸计)	22	
20	丙烯腈与丙烯酸乙酯和 N-羟甲基-丙烯酰胺的共聚物	29013-35-2	按生产需要适量使用	ND(丙烯腈:SML,DL=0.01 mg/kg); 0.05 (N-羟甲基-丙烯酰胺:SML)	6(以丙烯酸计)	22	
21	丙烯腈与丙烯酸乙酯和亚甲基丁二酸的共聚物	35705-21-6	按生产需要适量使用	ND(丙烯腈:SML,DL=0.01 mg/kg)	6(以丙烯酸计)	22	
22	丙烯腈与甲基丙烯酸甲酯和苯乙烯的共聚物	25213-88-1	按生产需要适量使用	ND(丙烯腈:SML,DL=0.01 mg/kg)	6(以甲基丙烯酸计)	23	
23	丙烯均聚物;聚丙烯	9003-07-0	按生产需要适量使用				
24	丙烯酸丁酯与甲基丙烯酸丁酯、甲基丙烯酸和甲基丙烯酸甲酯的共聚物	26184-07-6	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
25	丙烯酸丁酯与甲基丙烯酸和甲基丙烯酸甲酯的共聚物	25035-69-2	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	

表 A.1 直接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
26	丙烯酸丁酯与亚甲基丁二酸、甲基丙烯酸和苯乙烯的共聚物	65899-77-6	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
27	丙烯酸甲酯与1,3-丁二烯和丙烯腈的聚合物	27012-62-0	按生产需要适量使用	ND(丙烯腈: SML, DL = 0.01 mg/kg); ND(1,3-丁二烯: SML, DL = 0.01 mg/kg)	6(以丙烯酸计)	22	生产的材料或制品仅用于接触水性食品、含油脂食品和干性食品,使用温度不得高于66℃
28	丙烯酸乙酯与甲基丙烯酸的共聚物	25212-88-8	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
29	丙烯酸乙酯与乙烯和顺丁烯二酸酐的聚合物	41171-14-6	按生产需要适量使用		30(以顺丁烯二酸计); 6(以丙烯酸计)	3;22	
30	丙烯酸与丙烯酸丁酯、丙烯酸-2-乙基己酯和丙烯酸甲酯的共聚物	98060-25-4	按生产需要适量使用	0.05(丙烯酸-2-乙基己酯: SML)	6(以丙烯酸计)	22	
31	丙烯酸与丙烯酸丁酯和丙烯酸-2-甲基丙酯的共聚物	58090-96-3	按生产需要适量使用		6(以丙烯酸计)	22	
32	丙烯酸与丙烯酸丁酯和甲基丙烯酸甲酯的共聚物	26300-51-6	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
33	丙烯酰胺与丙烯腈、丙烯酸乙酯、亚甲基丁二酸和N-羟甲基-丙烯酰胺的共聚物	65379-28-4	按生产需要适量使用	ND(丙烯酰胺: SML, DL = 0.01 mg/kg); ND(丙烯腈: SML, DL = 0.01 mg/kg); 0.05(N-羟甲基-丙烯酰胺: SML)	6(以丙烯酸计)	22	

表 A.1 直接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
34	二甲基(硅氧烷与聚硅氧烷)和二氧化硅的反应产物	67762-90-7	按生产需要适量使用				
35	甲基倍半硅氧烷	68554-70-1	按生产需要适量使用				该物质中甲基三甲氧基硅烷的残留量小于 1 mg/kg
36	甲基丙烯酸丁酯与丙烯酸-2-乙基己基酯、甲基丙烯酸和甲基丙烯酸甲酯的共聚物	56925-73-6	按生产需要适量使用	0.05(丙烯酸-2-乙基己基酯:SML)	6(以甲基丙烯酸计)	23	
37	甲基丙烯酸甲酯与丙烯酸乙酯和 2-丙烯酸的聚合物	25135-39-1	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
38	甲基丙烯酸与丙烯酸丁酯的聚合物	25035-82-9	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
39	甲基丙烯酸与丙烯酸丁酯和丙烯酸乙酯的聚合物	31069-81-5	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
40	甲基丙烯酸与丙烯酸乙酯和甲基丙烯酸甲酯的共聚物	25133-97-5	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
41	聚乙二醇	25322-68-3	按生产需要适量使用		30(以乙二醇计)	2	
42	邻苯二甲酸二烯丙酯与丙烯酸乙酯和甲基丙烯酸的共聚物	28411-49-6	按生产需要适量使用	ND(邻苯二甲酸二烯丙酯:SML, DL = 0.01 mg/kg)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	生产的材料或制品不得用于接触含油脂食品、乙醇含量高于 20% (体积分数) 的食品;不得用于生产婴幼儿专用食品接触材料及制品

表 A.1 直接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
43	氢封端的二甲基(硅氧烷与聚硅氧烷)	70900-21-9	按生产需要适量使用				
44	三聚-1,2-丙二醇	24800-44-0	按生产需要适量使用				
45	天然橡胶	—	按生产需要适量使用		ND(2-甲基-1,3-丁二烯:SML, DL = 0.01 mg/kg) 或 1(2-甲基-1,3-丁二烯:QM)		
46	妥尔油松香	8052-10-6	按生产需要适量使用				
47	亚硫酸氢钠与丙烯酸酯的调聚物	66019-18-9	按生产需要适量使用		10(以二氧化硫计); 6(以丙烯酸计)	19;22	
48	乙烯均聚物;聚乙烯	9002-88-4	按生产需要适量使用				
49	乙烯-乙酸乙烯酯-乙醇聚合物	26221-27-2	按生产需要适量使用	12(乙酸乙烯酯:SML)			生产的材料或制品不得用于接触乙醇含量超过8%(体积分数)的食品
50	乙烯与丙烯酸的聚合物	9010-77-9	按生产需要适量使用		6(以丙烯酸计)	22	
51	异戊二烯-异丁烯的共聚物;含1-甲基-1-丙基的2-甲基-1,3-丁二烯的聚合物	9010-85-9	按生产需要适量使用	ND(2-甲基-1,3-丁二烯:SML, DL=0.01 mg/kg) 或 1(2-甲基-1,3-丁二烯:QM)			

附 录 B

间接接触食品用黏合剂允许使用的基础原料及使用要求

- B.1** 表 B.1 规定了间接接触食品用黏合剂允许使用的基础原料名单及使用要求。表 B.1 中列出的基础原料以 CAS 号为准,没有 CAS 号的以中文名称为准。
- B.2** 由列于表 B.1 中的单体、其他起始物、基础聚合物等基础原料经聚合或其他方式形成的分子量大于 1 000 Da 的物质也允许用作间接接触食品用黏合剂的基础原料,并应符合相应单体、其他起始物、基础聚合物等基础原料的限制性要求。
- B.3** GB 9685 中特定迁移总量限量[SML(T)]及 SML(T)分组编号适用于本标准。
- B.4** 表 B.1 中聚合物合成所使用单体及其他起始物为酸、醇或酚类物质的,其钠盐、钾盐和钙盐(包括酸式盐和复盐)也可在相应聚合物的合成中使用,并应符合相应的酸、醇或酚类单体及其他起始物的限制性要求;表 B.1 已列出的单体及其他起始物的钠盐、钾盐和钙盐(包括酸式盐和复盐),其使用应按本标准规定执行。

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
1	(Z)-2-丁烯二酸与 2-丙烯酸 的聚合物	29132-58-9	按生产需要适 量使用		30(以顺丁烯 二酸计); 6 (以丙烯酸 计)	3;22	
2	1,1,2,3,3,3- 六氟-1-丙烯与 1,1-二氟乙烯 的聚合物	9011-17-0	按生产需要适 量使用	ND(1,1,2,3,3,3-六 氟-1-丙烯:SML, DL =0.01 mg/kg); 5(1, 1-二氟乙烯:SML)			相对分子质量应 大于 70 000 Da
3	1,1-二氟乙烯 均聚物	24937-79-9	按生产需要适 量使用	5(1,1-二氟乙烯: SML)			不得接触强碱性 物质
4	1,1-二氯乙烯	75-35-4	按生产需要适 量使用	ND(1,1-二氯乙烯: SML, DL = 0.01 mg/ kg)或 5(1,1-二氯乙 烯:QM)			
5	1,1-二氯乙烯 与丙烯腈的聚 合物	9010-76-8	按生产需要适 量使用	ND(1,1-二氯乙烯: SML, DL = 0.01 mg/ kg)或 5(1,1-二氯乙 烯:QM); ND(丙烯 腈:SML, DL = 0.01 mg/kg)			生产的材料或制 品使用温度不得 高于 121 ℃
6	1,1-二氯乙烯 与丙烯酸甲酯 的聚合物	25038-72-6	按生产需要适 量使用	ND(1,1-二氯乙烯: SML, DL = 0.01 mg/ kg)或 5(1,1-二氯乙 烯:QM)	6(以丙烯酸 计)	22	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
7	1,2,4-苯三羧酸	528-44-9	按生产需要适量使用		5(以偏苯三甲酸计)	21	
8	1,2-丙二醇	57-55-6	按生产需要适量使用				
9	1,2-二氨基乙烷	107-15-3	按生产需要适量使用	12(1,2-二氨基乙烷: SML)			
10	1,2-乙二醇	107-21-1	按生产需要适量使用		30(以乙二醇计)	2	
11	1,2-乙二醇与间苯二甲酸、2,2-二甲基-1,3-丙二醇、癸二酸和甲苯二异氰酸酯的聚合物	153597-64-9	按生产需要适量使用	0.05(2,2-二甲基-1,3-丙二醇:SML);1(甲苯二异氰酸酯:以异氰酸根计,QM)	30(以乙二醇计);ND(以异氰酸根计,DL = 0.01 mg/kg);5(以间苯二甲酸计)	2;17;27	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
12	1,3-丁二烯	106-99-0	按生产需要适量使用	ND(1,3-丁二烯:SML,DL = 0.01 mg/kg)			
13	1,3-丁二烯低聚的均聚物	68441-52-1	按生产需要适量使用	ND(1,3-丁二烯:SML,DL = 0.01 mg/kg)			
14	1,4-丁二醇	110-63-4	按生产需要适量使用		5(以1,4-丁二醇计)	30	
15	1,4-丁二醇与 α -氢- ω -羟基聚(1,4-丁二醇)和4,4'-二苯基甲烷二异氰酸酯的聚合物	9018-04-6	按生产需要适量使用	0.6(四氢呋喃:SML);1(4,4'-二苯基甲烷二异氰酸酯:以异氰酸根计,QM)	ND(以异氰酸根计,DL = 0.01 mg/kg);5(以1,4-丁二醇计)	17;30	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
16	1,4-丁二醇与 α -氢- ω -羟基聚(1,4-丁二醇)和二苯基甲烷二异氰酸酯的聚合物	37383-28-1	按生产需要适量使用	0.6(四氢呋喃:SML);1(二苯基甲烷二异氰酸酯:以异氰酸根计,QM)	ND(以异氰酸根计,DL = 0.01 mg/kg);5(以1,4-丁二醇计)	17;30	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
17	1,4-丁二醇与 ε-己内酯的聚 合物	31831-53-5	按生产需要适 量使用		0.05(以 6-羟 基己酸和己 内酯计); 5 (以 1,4-丁二 醇计)	29;30	
18	1,4-二(羟甲 基)环己烷	105-08-8	按生产需要适 量使用				
19	1,5-萘二异氰 酸酯	3173-72-6	按生产需要适 量使用	1(1,5-萘二异氰酸酯: 以异氰酸根计,QM)	ND(以异氰 酸根计,DL = 0.01 mg/ kg)	17	异氰酸酯类物质 易与水基食品模 拟物发生反应,可 采用残留量筛查 迁移量验证其合 规性
20	1,6-己二胺与 1,12-十二烷二 酸的聚合物	26098-55-5	按生产需要适 量使用	2.4(1,6-己二胺: SML)			
21	1,6-己二醇	629-11-8	按生产需要适 量使用	0.05(1,6-己二醇: SML)			
22	1,6-己二酸	124-04-9	按生产需要适 量使用				
23	1,6-己二酸与 1,2-乙二醇、间 苯二甲酸、2-乙 基-2-羟甲基-1, 3-丙二醇和对 苯二甲酸的聚 合物	83863-90-5	按生产需要适 量使用	6(2-乙基-2-羟甲基-1, 3-丙二醇/三羟甲基丙 烷;SML)	30(以乙二醇 计); 5(以间 苯二甲酸 计); 7.5(以 对苯二甲酸 计)	2;27;28	
24	1,6-己二酸与 1,2-乙二醇、间 苯二甲酸、癸二 酸和对苯二甲 酸的聚合物	28902-18-3	按生产需要适 量使用		30(以乙二醇 计); 5(以间 苯二甲酸 计); 7.5(以 对苯二甲酸 计)	2;27;28	
25	1,6-己二酸与 1,3-丁二醇的 聚合物	24937-93-7	按生产需要适 量使用		30[以 SML (T)组号 31 物质之和 计]; 60[以 SML(T)组 号 32 物质之 和计]	31;32	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
26	1,6-己二酸与 1,4-丁二醇和 六亚甲基二异 氰酸酯的聚 合物	28476-49-5	按生产需要适 量使用	1(六亚甲基二异氰酸 酯:以异氰酸根计: QM)	ND(以异氰 酸根计, DL = 0.01 mg/ kg); 5(以 1, 4-丁二醇计)	17;30	生产的材料或制 品使用温度不得 高于 200 ℃;异氰 酸酯类物质易与 水基食品模拟物 发生反应,可采用 残留量筛查迁移 量验证其合规性
27	1,6-己二酸与 1,6-己二醇和 2,2-二甲基-1, 3-丙二醇的聚 合物	25214-14-6	按生产需要适 量使用	0.05 (1,6-己二 醇:SML); 0.05 (2,2-二 甲基-1,3-丙二 醇:SML)			用于片状结构时, 不得用于接触乙 醇含量超过 8% (体积分数)的 食品
28	1,6-己二酸与 2,2'-氧代二乙 醇、1,2-乙二醇 和间苯二甲酸 的聚合物	86713-72-6	按生产需要适 量使用		30(以乙二醇 计); 5(以间 苯二甲酸计)	2;27	
29	1,6-己二酸与 2,2'-乙醇醚、 1,2-乙二醇、间 苯二甲酸和 2- 乙基-2-羟甲基- 1,3-丙二醇的 聚合物	—	按生产需要适 量使用	6(2-乙基-2-羟甲 基-1,3-丙二 醇/三羟甲基丙 烷:SML)	30(以乙二醇 计); 5(以间 苯二甲酸计)	2;27	
30	1,6-己二酸与 2-乙基-2-羟甲 基-1,3-丙二醇 的聚合物	28301-90-8	按生产需要适 量使用	6(2-乙基-2-羟甲 基-1,3-丙二 醇/三羟甲基丙 烷:SML)			
31	1,6-己二酸与 蓖麻油、二甘 醇、1,6-己二 醇、间苯二甲 酸、丙二醇和 4,4'-二苯基甲 烷二异氰酸酯 的聚合物	—	按生产需要适 量使用	0.05 (1,6-己二 醇:SML); 1(4,4'-二 苯基 甲烷二异氰酸酯: 以异 氰酸根计,QM)	30(以乙二醇 计); ND(以 异氰酸根计, DL = 0.01 mg/kg); 5 (以间苯二甲 酸计)	2;17;27	异氰酸酯类物质 易与水基食品模 拟物发生反应,可 采用残留量筛查 迁移量验证其合 规性

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
32	1,6-己二酸与氮杂环十三烷-2-酮和 α -氢代- ω -羟基聚(氧代-1,4-亚丁基)的聚合物	77402-38-1	按生产需要适量使用	5(氮杂环十三烷-2-酮;SML)	5(1,4-丁二醇;SML)	30	
33	1,6-己二酸与二甘醇、对苯二甲酸、二苯基甲烷二异氰酸酯、聚丙二醇和三异丙醇胺的聚合物	—	按生产需要适量使用	1(二苯基甲烷二异氰酸酯;以异氰酸根计,QM);5(三异丙醇胺;SML)	30(以乙二醇计);ND(以异氰酸根计,DL = 0.01 mg/kg);7.5(以对苯二甲酸计)	2;17;28	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
34	1,6-己二酸与二甘醇、对苯二甲酸、二苯基甲烷二异氰酸酯和聚丙二醇的聚合物	—	按生产需要适量使用	1(二苯基甲烷二异氰酸酯;以异氰酸根计,QM)	30(以乙二醇计);ND(以异氰酸根计,DL = 0.01 mg/kg);7.5(以对苯二甲酸计)	2;17;28	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
35	1,6-己二酸与二甘醇、对苯二甲酸、二苯基甲烷二异氰酸酯和聚丙二醇的聚合物	—	按生产需要适量使用	1(二苯基甲烷二异氰酸酯;以异氰酸根计,QM)	30(以乙二醇计);ND(以异氰酸根计,DL = 0.01 mg/kg);7.5(以对苯二甲酸计)	2;17;28	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
36	1,6-己二酸与二甘醇、间苯二甲酸、4,4'-二苯基甲烷二异氰酸酯和聚丙二醇的聚合物	180027-62-7	按生产需要适量使用	1(4,4'-二苯基甲烷二异氰酸酯;以异氰酸根计,QM)	30(以乙二醇计);ND(以异氰酸根计,DL = 0.01 mg/kg);5(以间苯二甲酸计)	2;17;27	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
37	1,6-己二酸与二甘醇、乙二醇、间苯二甲酸和异佛尔酮二异氰酸酯的聚合物	—	按生产需要适量使用	1(异佛尔酮二异氰酸酯;以异氰酸根计,QM)	30(以乙二醇计);ND(以异氰酸根计,DL = 0.01 mg/kg);5(以间苯二甲酸计)	2;17;27	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
38	1,6-己二酸与二甘醇和二苯基甲烷二异氰酸酯的聚合物	39466-00-7	按生产需要适量使用	1(二苯基甲烷二异氰酸酯;以异氰酸根计,QM)	30(以乙二醇计);ND(以异氰酸根计,DL = 0.01 mg/kg)	2;17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
39	1,6-己二酸与间苯二甲酸、1,2-丙二醇和2-乙基-2-羟甲基-1,3-丙二醇的聚合物	26282-28-0	按生产需要适量使用	6(2-乙基-2-羟甲基-1,3-丙二醇/三羟甲基丙烷:SML)	5(以间苯二甲酸计)	27	
40	1,6-己二酸与壬二酸、1,2-乙二醇、间苯二甲酸和对苯二甲酸的聚合物	54688-53-8	按生产需要适量使用		30(以乙二醇计);5(以间苯二甲酸计);7.5(以对苯二甲酸计)	2;27;28	
41	1,6-己二酸与氧基双[丙醇]、1,6-己二醇、4,4'-二苯基甲烷二异氰酸酯和2,2-二甲基-1,3-丙二醇的聚合物	119657-58-8	按生产需要适量使用	0.05(1,6-己二醇:SML);1(4,4'-二苯基甲烷二异氰酸酯;以异氰酸根计,QM);0.05(2,2-二甲基-1,3-丙二醇:SML)	ND(以异氰酸根计,DL = 0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
42	1-丁烯与乙烯的聚合物	25087-34-7	按生产需要适量使用				
43	1-辛烯	111-66-0	按生产需要适量使用	15(1-辛烯:SML)			

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
44	2, 2'-[(1-甲基亚乙基)双(4, 1-亚苯氧基亚甲基)]双环氧乙烷	1675-54-3	按生产需要适量使用	3[2, 2-双(4-羟基苯基)丙烷; SML]; 1(环氧乙烷; QM)或 ND(环氧乙烷; SML, DL=0.01 mg/kg); 9 mg/6 dm ² [以 BADGE、BADGE·H ₂ O 和 BADGE·2H ₂ O 之和计; QM]或 9[以 BADGE、BADGE·H ₂ O 和 BADGE·2H ₂ O 之和计; SML(T)]; 1 mg/6 dm ² [以 BADGE·HCl、BADGE·2HCl 和 BADGE·H ₂ O·HCl 之和计; QM]或 1[以 BADGE·HCl、BADGE·2HCl 和 BADGE·H ₂ O·HCl 之和计; SML(T)]			环氧乙烷均易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
45	2, 2-二甲基-1, 3-丙二醇	126-30-7	按生产需要适量使用	0.05(2, 2-二甲基-1, 3-丙二醇; SML)			
46	2, 2-二羟甲基丁醇; 3-羟甲基丙烷; TMP	77-99-6	按生产需要适量使用	6(2, 2-二羟甲基丁醇; SML)			
47	2, 4'-二苯基甲烷二异氰酸酯; 1-异氰酸根-2-[(4-异氰酸根苯基)甲基]苯	5873-54-1	按生产需要适量使用	1(2, 4'-二苯基甲烷二异氰酸酯; 以异氰酸根计, QM)	ND(以异氰酸根计, DL=0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
48	2, 4-甲苯二异氰酸酯; 2, 4-二异氰酸基-1-甲基苯	584-84-9	按生产需要适量使用	1(2, 4-甲苯二异氰酸酯; 以异氰酸根计, QM)	ND(以异氰酸根计, DL=0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
49	2,6-甲 苯 二 异 氰酸酯;1,3-二 异 氰 酸 根 合-2- 甲 基 苯	91-08-7	按生产需要适 量使用	1(2,6-甲 苯 二 异 氰 酸 酯:以 异 氰 酸 根 计, QM)	ND(以 异 氰 酸 根 计, DL = 0.01 mg/ kg)	17	异氰酸酯类物质 易与水基食品模 拟物发生反应,可 采用残留量筛查 迁移量验证其合 规性
50	2-苯丙烯	98-83-9	按生产需要适 量使用	0.05(2-苯丙烯:SML)			
51	2-丙 烯 酸-2-甲 基 丙 基 酯	106-63-8	按生产需要适 量使用		6(以 丙 烯 酸 计)	22	
52	2-丙 烯 酸 的 均 聚 物	9003-01-4	按生产需要适 量使用		6(以 丙 烯 酸 计)	22	
53	2-丙 烯 酸 均 聚 物 的 铵 盐	9003-03-6	按生产需要适 量使用		6(以 丙 烯 酸 计)	22	
54	2-丙 烯 酸 均 聚 物 的 钠 盐	9003-04-7	按生产需要适 量使用		6(以 丙 烯 酸 计)	22	
55	2-丙 烯 酸 与 1, 1-二 氯 乙 烯 和 丙 烯 酸 甲 酯 的 聚 合 物	26124-53-8	按生产需要适 量使用	ND(1,1-二 氯 乙 烯: SML,DL=0.01 mg/ kg)或 5(1,1-二 氯 乙 烯:QM)	6(以 丙 烯 酸 计)	22	
56	2-丙 烯 酸 与 顺 丁 烯 二 酸 酐 聚 合 物 的 钠 盐	52255-49-9	按生产需要适 量使用		30(以 顺 丁 烯 二 酸 计); 6 (以 丙 烯 酸 计)	3;22	
57	2-丙 烯 酸 与 2- 丙 烯 酰 胺 聚 合 物 的 钠 盐	25987-30-8	按生产需要适 量使用	ND(丙 烯 酰 胺:SML, DL=0.01 mg/kg)	6(以 丙 烯 酸 计)	22	
58	2-丙 烯 酸 与 2- 乙 基 己 基-2-丙 烯 酸 酯 的 聚 合 物	25134-51-4	按生产需要适 量使用	0.05(2-乙 基 己 基-2-丙 烯 酸 酯:SML)	6(以 丙 烯 酸 计)	22	
59	2-丙 烯 酸 与 丁 基-2-丙 烯 酸 酯、苯 乙 烯、2- 乙 基 己 基-2-丙 烯 酸 酯 和 2-羟 乙 基-2-丙 烯 酸 酯 的 聚 合 物	68527-36-6	按生产需要适 量使用	0.05(2-乙 基 己 基-2-丙 烯 酸 酯:SML)	6(以 丙 烯 酸 计)	22	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
60	2-丙烯酸与亚硫酸氢钠的调聚物钠盐	68479-09-4	按生产需要适量使用		10(以二氧化硫计); 6(以丙烯酸计)	19;22	
61	2-丙烯酸与乙烯基苯和(1-甲基乙烯基)苯的聚合物	52831-04-6	按生产需要适量使用		6(以丙烯酸计)	22	
62	2-丙烯酸与乙烯基苯聚合物的铵盐	35209-54-2	按生产需要适量使用		6(以丙烯酸计)	22	
63	2-丙烯酰胺	79-06-1	按生产需要适量使用	ND(丙烯酰胺:SML, DL=0.01 mg/kg)			
64	2-丁烯酸与乙酸乙烯基酯的聚合物	25609-89-6	按生产需要适量使用	0.05(丁烯酸:SML); 12(乙酸乙烯酯:SML)			无相应的丁烯酸迁移量检测方法时可使用 0.05 mg/6 dm ² (QM) 作为其限量值
65	2-甲基-1, 3-丁二烯	78-79-5	按生产需要适量使用	ND(2-甲基-1, 3-丁二烯:SML, DL = 0.01 mg/kg) 或 1(2-甲基-1, 3-丁二烯:QM)			
66	2-甲基-1, 3-丁二烯与氯化-2-甲基-1-丙烯的聚合物	68081-82-3	按生产需要适量使用	ND(2-甲基-1, 3-丁二烯:SML, DL = 0.01 mg/kg) 或 1(2-甲基-1, 3-丁二烯:QM)			
67	2-甲基-1, 3-丁二烯与溴化-2-甲基-1-丙烯的聚合物	68441-14-5	按生产需要适量使用	ND(2-甲基-1, 3-丁二烯:SML, DL = 0.01 mg/kg) 或 1(2-甲基-1, 3-丁二烯:QM)			
68	2-甲基-2-丙烯酸-2-丙烯基酯	96-05-9	按生产需要适量使用	0.05(2-甲基-2-丙烯酸-2-丙烯基酯:SML)			
69	2-甲基-2-丙烯酸-2-丙烯基酯与丙烯腈、甲基丙烯酸、甲基丙烯酸甲酯和苯乙烯的聚合物	—	按生产需要适量使用	0.05(2-甲基-2-丙烯酸-2-丙烯基酯:SML); ND(丙烯腈:SML, DL = 0.01 mg/kg)	6(以甲基丙烯酸计)	23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
70	2-甲基-2-丙烯酸-2-丙烯酸酯与丙烯酸丁酯、甲基丙烯酸和苯乙烯的聚合物	—	按生产需要适量使用	0.05 (2-甲基-2-丙烯酸-2-丙烯酸酯; SML)	6 (以丙烯酸计); 6 (以甲基丙烯酸计)	22; 23	
71	2-甲基-2-丙烯酸环氧乙烷基甲基酯与乙烯和丙烯酸甲酯的聚合物	51541-08-3	按生产需要适量使用	0.02 (2-甲基-2-丙烯酸环氧乙烷基甲基酯: SML)	6 (以丙烯酸计)	22	当 2-甲基-2-丙烯酸环氧乙烷基甲基酯可与所接触食品或食品模拟物发生反应时, 使用 0.02 mg/6 dm ² (QM) 作为其限量值
72	2-甲基-2-丙烯酸环氧乙烷基甲基酯与丙烯酸甲酯和二氯乙烯的聚合物	54975-10-9	按生产需要适量使用	0.02 (2-甲基-2-丙烯酸环氧乙烷基甲基酯: SML); ND (1,1-二氯乙烯: SML, DL=0.01 mg/kg) 或 5 (1,1-二氯乙烯: QM)	6 (以丙烯酸计)	22	当 2-甲基-2-丙烯酸环氧乙烷基甲基酯可与所接触食品或食品模拟物发生反应时, 使用 0.02 mg/6 dm ² (QM) 作为其限量值
73	2-甲基-2-丙烯酸环氧乙烷基甲基酯与氯乙烯和乙酸乙烯酯的聚合物	26781-49-7	按生产需要适量使用	0.02 (2-甲基-2-丙烯酸环氧乙烷基甲基酯: SML); ND (氯乙烯: SML, DL=0.01 mg/kg) 或 1 (氯乙烯: QM); 12 (乙酸乙烯酯: SML)			当 2-甲基-2-丙烯酸环氧乙烷基甲基酯可与所接触食品或食品模拟物发生反应时, 使用 0.02 mg/6 dm ² (QM) 作为其限量值
74	2-羟基乙基-2-甲基-2-丙烯酸酯	868-77-9	按生产需要适量使用		6 (以甲基丙烯酸计)	23	
75	2-乙基-2-羟甲基-1,3-丙二醇与 4,4'-二苯基甲烷二异氰酸酯的聚合物	27967-69-7	按生产需要适量使用	6 (2-乙基-2-羟甲基-1,3-丙二醇/三羟甲基丙烷: SML); 1 (4,4'-二苯基甲烷二异氰酸酯: 以异氰酸根计, QM)	30 (以乙二醇计); ND (以异氰酸根计, DL=0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应, 可采用残留量筛查迁移量验证其合规性

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
76	3 α , 4, 7, 7 α -四氢-4,7-亚甲基-1H-茚与乙烯和丙烯的聚合物	25034-71-3	按生产需要适量使用				
77	3-氨基丙基三乙氧基硅烷	919-30-2	按生产需要适量使用	0.05(3-氨基丙基三乙氧基硅烷:SML)			
78	3-羟基-2-(羟甲基)-2-甲基丙酸	4767-03-7	按生产需要适量使用	0.05[3-羟基-2-(羟甲基)-2-甲基丙酸:SML]			无相应的迁移量检测方法时可使用 0.05 mg/6 dm ² (QM) 作为其限量值
79	4,4'-二苯基甲烷二异氰酸酯	101-68-8	按生产需要适量使用	1(4,4'-二苯基甲烷二异氰酸酯:以异氰酸根计,QM)	ND(以异氰酸根计,DL=0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
80	4,4'-二苯基甲烷二异氰酸酯与己醇和聚乙二醇的聚合物	—	按生产需要适量使用	1(4,4'-二苯基甲烷二异氰酸酯:以异氰酸根计,QM)	30(以乙二醇计); ND(以异氰酸根计,DL=0.01 mg/kg)	2;17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
81	4,4'-二氟二苯甲酮与对苯二酚的聚合物	29658-26-2	按生产需要适量使用	0.05(4,4'-二氟二苯甲酮:SML);0.6(对苯二酚:SML)			
82	4,4'-二环己基甲烷二异氰酸酯	5124-30-1	按生产需要适量使用	1(4,4'-二环己基甲烷二异氰酸酯:以异氰酸根计,QM)	ND(以异氰酸根计,DL=0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
83	4,4'-二羟基二苯基丙烷;双酚 A	80-05-7	按生产需要适量使用	0.05(4,4'-二羟基二苯基丙烷/双酚 A:SML)			不得用于生产婴幼儿专用食品接触材料及制品

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
84	4,4'-二羟基二苯基丙烷与环氧氯丙烷的聚合物	25068-38-6	按生产需要适量使用	0.05(4,4'-二羟基二苯基丙烷/双酚 A:SML); ND(环氧氯丙烷:SML, DL=0.01 mg/kg)或 1(环氧氯丙烷:QM);9 mg/6 dm ² [以 BADGE、BADGE·H ₂ O 和 BADGE·2H ₂ O 之和计:QM]或 9 [以 BADGE、BADGE·H ₂ O 和 BADGE·2H ₂ O 之和计:SML(T)];1 mg/6 dm ² [以 BADGE·HCl、BADGE·2HCl 和 BADGE·H ₂ O·HCl 之和计;QM]或 1 [以 BADGE·HCl、BADGE·2HCl 和 BADGE·H ₂ O·HCl 之和计:SML(T)]			不得用于生产婴幼儿专用食品接触材料及制品;环氧氯丙烷易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
85	4,4'-磺酰基二苯酚与 4,4'-二氯二苯砜的聚合物;4,4'-磺酰基二苯酚与 1,1'-磺酰基二(4-氯苯)的聚合物	25667-42-9、 25608-63-3	按生产需要适量使用	0.05(4,4'-磺酰基二苯酚:SML);0.05[1,1'-磺酰基二(4-氯苯):SML]			
86	5-氨基-1,3,3-三甲基环己甲胺	2855-13-2	按生产需要适量使用	6(5-氨基-1,3,3-三甲基环己甲胺:SML)			
87	5-磺基-间苯二甲酸单钠盐	6362-79-4	按生产需要适量使用	5(5-磺基-间苯二甲酸单钠盐:SML)			
88	C ₁₀ ~C ₁₆ -醇	67762-41-8	按生产需要适量使用				
89	D-山梨糖醇	50-70-4	按生产需要适量使用				

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
90	N-(2-氨基乙基)乙醇胺	111-41-1	按生产需要适量使用	0.05[N-(2-氨基乙基)乙醇胺;SML]			生产的材料或制品不得用于接触含油脂食品
91	α -甲基苯乙烯与苯乙烯的聚合物	9011-11-4	按生产需要适量使用				
92	ϵ -己内酰胺与聚己二酰己二胺的聚合物; ϵ -己内酰胺与 1,6-己二酸和 1,6-己二胺的聚合物	24993-04-2	按生产需要适量使用	2.4(1,6-己二胺;SML)	15(以己内酰胺计)	4	
93	ϵ -羟基己酸内酯与 2,2-二甲基-1,3-丙二醇的聚合物	69089-45-8	按生产需要适量使用	0.05(2,2-二甲基-1,3-丙二醇;SML)	0.05(以 6-羟基己酸和己内酯计)	29	
94	苯乙烯	100-42-5	按生产需要适量使用				
95	苯乙烯、丙烯酸乙基己基酯、丙烯酸丁酯的聚合物	—	按生产需要适量使用	0.05(丙烯酸乙基己基酯;SML)	6(以丙烯酸计)	22	
96	苯乙烯与甲基丙烯酸的聚合物	9010-92-8	按生产需要适量使用		6(以甲基丙烯酸计)	23	生产的材料或制品使用温度不得高于 121℃
97	蓖麻油	8001-79-4	按生产需要适量使用				
98	蓖麻油与 4,4'-二苯基甲烷二异氰酸酯和 2-乙基-2-羟甲基-1,3-丙二醇的聚合物	—	按生产需要适量使用	1(4,4'-二苯基甲烷二异氰酸酯;以异氰酸根计,QM);6(2-乙基-2-羟甲基-1,3-丙二醇/三羟甲基丙烷;SML)	ND(以异氰酸根计,DL=0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
99	丙醇醚	25265-71-8	按生产需要适量使用				
100	丙三醇	56-81-5	按生产需要适量使用				

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
101	丙酮	67-64-1	按生产需要适 量使用				
102	丙烯腈	107-13-1	按生产需要适 量使用	ND(丙烯腈;SML,DL =0.01 mg/kg)			
103	丙烯酸	79-10-7	按生产需要适 量使用		6(以丙烯酸 计)	22	
104	丙烯酸-2-羟乙 基酯	818-61-1	按生产需要适 量使用		6(以丙烯酸 计)	22	
105	丙烯酸-2-乙基 己基酯	103-11-7	按生产需要适 量使用	0.05(丙烯酸-2-乙基己 基酯;SML)			
106	丙烯酸-2-乙基 己基酯与乙酸乙 烯酯的聚合 物	25067-02-1	按生产需要适 量使用	0.05(丙烯酸-2-乙基己 基酯,SML);12(乙酸 乙烯酯,SML)			生产的材料或制 品仅用于室温灌 装并在室温下长 期贮存(包括热灌 装、巴氏消毒或其 他热处理)
107	丙烯酸-2-乙基 己酯与甲基丙 烯酸甲酯和苯 乙烯的聚合物	25750-06-5	按生产需要适 量使用	0.05(丙烯酸-2-乙基己 酯;SML)	6(以甲基丙 烯酸计)	23	
108	丙烯酸丁酯	141-32-2	按生产需要适 量使用		6(以丙烯酸 计)	22	
109	丙烯酸丁酯均 聚物	9003-49-0	按生产需要适 量使用		6(以丙烯酸 计)	22	
110	丙烯酸丁酯与 2-丙烯酸-1,1- 二甲基乙酯和 乙烯基苯的聚 合物	29497-08-3	按生产需要适 量使用		6(以丙烯酸 计)	22	生产的材料或制 品仅用于接触水 性和含油脂食品
111	丙烯酸丁酯与 苯乙烯的聚 合物	25767-47-9	按生产需要适 量使用		6(以丙烯酸 计)	22	
112	丙烯酸丁酯与 丙烯酸-2-羟乙 酯的聚合物	32409-50-0	按生产需要适 量使用		6(以丙烯酸 计)	22	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
113	丙烯酸丁酯与丙烯酸-2-乙基己酯和苯乙烯的聚合物	30795-23-4	按生产需要适量使用	0.05(丙烯酸-2-乙基己酯;SML)	6(以丙烯酸计)	22	
114	丙烯酸丁酯与丙烯酸-2-乙基己酯和丙烯酸甲酯的聚合物	25916-29-4	按生产需要适量使用	0.05(丙烯酸-2-乙基己酯;SML)	6(以丙烯酸计)	22	
115	丙烯酸丁酯与丙烯酸异丁酯的聚合物	30698-92-1	按生产需要适量使用		6(以丙烯酸计)	22	
116	丙烯酸丁酯与甲基丙烯酸-2-羟乙酯、甲基丙烯酸、甲基丙烯酸甲酯和苯乙烯的聚合物	36179-96-1	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	
117	丙烯酸丁酯与甲基丙烯酸丁酯、丙烯酸乙酯、甲基丙烯酸和甲基丙烯酸甲酯的聚合物	—	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	
118	丙烯酸丁酯与甲基丙烯酸和苯乙烯的聚合物	25036-16-2	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	
119	丙烯酸丁酯与甲基丙烯酸甲酯和 2-甲基-2-丙烯酸-2-羟乙酯的聚合物	25951-39-7	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	
120	丙烯酸丁酯与马来酸二烯丙酯、甲基丙烯酸甲酯和三羟甲基丙基三丙烯酸酯的聚合物	—	按生产需要适量使用	6(2-乙基-2-羟甲基-1,3-丙二醇/三羟甲基丙烷;SML)	6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
121	丙烯酸丁酯与亚甲基丁二酸、甲基丙烯酸和苯乙烯聚合物的铵盐	—	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22; 23	
122	丙烯酸甲酯	96-33-3	按生产需要适量使用		6(以丙烯酸计)	22	
123	丙烯酸甲酯均聚物水解钠盐	68037-46-7	按生产需要适量使用		6(以丙烯酸计)	22	
124	丙烯酸甲酯与乙烯的聚合物	25103-74-6	按生产需要适量使用		6(以丙烯酸计)	22	
125	丙烯酸乙酯	140-88-5	按生产需要适量使用		6(以丙烯酸计)	22	
126	丙烯酸乙酯与 N-羟甲基-丙烯酰胺的聚合物	26428-44-4	按生产需要适量使用	0.05(N-羟甲基-丙烯酰胺; SML)	6(以丙烯酸计)	22	
127	丙烯酸乙酯与丙烯酸-2-乙基己基酯的聚合物	26376-86-3	按生产需要适量使用	0.05(丙烯酸-2-乙基己基酯; SML)	6(以丙烯酸计)	22	
128	丙烯酸乙酯与甲基丙烯酸和苯乙烯的聚合物	25035-68-1	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22; 23	
129	丙烯酸乙酯与甲基丙烯酸甲酯和 N-羟甲基-丙烯酰胺的聚合物	25035-74-9	按生产需要适量使用	0.05(N-羟甲基-丙烯酰胺; SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22; 23	
130	丙烯酸乙酯与亚甲基丁二酸的聚合物	26124-80-1	按生产需要适量使用		6(以丙烯酸计)	22	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
131	丙烯酸与 1,3-丁二烯和苯乙烯的聚合物	25085-39-6	按生产需要适量使用	ND(1,3-丁二烯, SML, DL = 0.01 mg/kg)	6(以丙烯酸计)	22	仅用于生产间接接触食品的压敏胶;生产的材料或制品仅用于室温灌装并在室温下长期贮存(包括热灌装、巴氏消毒或其他热处理)
132	丙烯酸与 C ₁₂ -C ₁₅ 烷醇聚乙二醇醚的聚合物	152261-36-4	按生产需要适量使用		30(以乙二醇计);6(以丙烯酸计)	2;22	
133	丙烯酸与苯乙烯的聚合物	25085-34-1	按生产需要适量使用		6(以丙烯酸计)	22	
134	丙烯酸与丙烯腈、丙烯酸 2-乙基己酯和苯乙烯的聚合物	40530-01-6	按生产需要适量使用	ND(丙烯腈:SML, DL = 0.01 mg/kg); 0.05 (丙烯酸 2-乙基己酯:SML)	6(以丙烯酸计)	22	
135	丙烯酸与丙烯腈、丙烯酸丁酯、甲基丙烯酸酰胺和 N-羟甲基-甲基丙烯酸酰胺的聚合物	—	按生产需要适量使用	ND(丙烯腈:SML, DL = 0.01 mg/kg); ND(甲基丙烯酸酰胺:SML, DL = 0.01 mg/kg); 0.05 (N-羟甲基-甲基丙烯酸酰胺:SML)	6(以丙烯酸计)	22	
136	丙烯酸与丙烯腈、丙烯酸乙酯、丙烯酸-2-乙基己酯、丙烯酸甲酯和苯乙烯的聚合物	—	按生产需要适量使用	ND(丙烯腈:SML, DL = 0.01 mg/kg); 0.05 (丙烯酸-2-乙基己酯:SML)	6(以丙烯酸计)	22	
137	丙烯酸与丙烯酸丁酯、1-甲基乙烯基苯和甲基丙烯酸甲酯聚合物的铵盐	157937-76-3	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	
138	丙烯酸与丙烯酸丁酯、甲基丙烯酸和苯乙烯的聚合物	25120-19-8	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
139	丙烯酸与丙烯酸丁酯和丙烯酸 2-羟乙酯的聚合物	30585-48-9	按生产需要适量使用		6(以丙烯酸计)	22	
140	丙烯酸与丙烯酸丁酯和丙烯酸乙酯的聚合物	27322-15-2	按生产需要适量使用		6(以丙烯酸计)	22	
141	丙烯酸与丙烯酸钠的聚合物	9033-79-8	按生产需要适量使用		6(以丙烯酸计)	22	
142	丙烯酸与丙烯酸乙酯和亚硫酸钠聚合物的钠盐	90066-14-1	按生产需要适量使用		10(以二氧化硫计); 6(以丙烯酸计)	19;22	
143	丙烯酸与丙烯酸乙酯聚合物的钠盐	26949-30-4	按生产需要适量使用		6(以丙烯酸计)	22	
144	丙烯酸与丙烯酰胺、丙烯腈、丙烯酸丁酯、甲基丙烯酸、N-甲氧基甲基-甲基丙烯酰胺和苯乙烯的聚合物	—	按生产需要适量使用	ND(丙烯腈:SML, DL=0.01 mg/kg); ND(丙烯酰胺:SML, DL=0.01 mg/kg); 0.05(N-甲氧基甲基-甲基丙烯酰胺:SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
145	丙烯酸与丙烯酰胺、丙烯酸丁酯、甲基丙烯酸和苯乙烯的聚合物	121028-92-0	按生产需要适量使用	ND(丙烯酰胺:SML, DL=0.01 mg/kg)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
146	丙烯酸与亚磷酸钠聚合物的钠盐	129898-01-7	按生产需要适量使用		6(以丙烯酸计)	22	
147	丙烯酸与乙烯、乙酸乙酯和丙烯酸-2-乙基己基酯的聚合物	72383-70-1	按生产需要适量使用	0.05(丙烯酸-2-乙基己酯:SML); 12(乙酸乙酯:SML)	6(以丙烯酸计)	22	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
148	丙烯酸与乙烯聚合物的铵盐	25212-83-3	按生产需要适量使用		6(以丙烯酸计)	22	
149	丙烯酰胺与丙烯腈、丙烯酸乙酯和 N-羟甲基-丙烯酰胺的聚合物	27082-48-0	按生产需要适量使用	ND(丙烯酰胺:SML, DL=0.01 mg/kg); ND(丙烯腈:SML, DL=0.01 mg/kg); 0.05 (N-羟甲基-丙烯酰胺:SML)	6(以丙烯酸计)	22	
150	丙烯酰胺与丙烯酸丁酯、丙烯酸乙酯、丙烯酸-2-乙基己酯和 N-羟甲基-丙烯酰胺的聚合物	—	按生产需要适量使用	ND(丙烯酰胺:SML, DL=0.01 mg/kg); 0.05(丙烯酸-2-乙基己酯:SML); 0.05(N-羟甲基-丙烯酰胺:SML)	6(以丙烯酸计)	22	
151	丙烯酰胺与丙烯酸乙酯、甲基丙烯酸甲酯和 N-羟甲基-丙烯酰胺的聚合物	30394-81-1	按生产需要适量使用	ND(丙烯酰胺:SML, DL=0.01 mg/kg); 0.05(N-羟甲基-丙烯酰胺:SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
152	丙烯酰胺与丙烯酸乙酯和 N-羟甲基-丙烯酰胺的聚合物	28433-25-2	按生产需要适量使用	ND(丙烯酰胺:SML, DL=0.01 mg/kg); 0.05(N-羟甲基-丙烯酰胺:SML)	6(以丙烯酸计)	22	
153	丙烯与 1-丁烯的聚合物	29160-13-2	按生产需要适量使用				
154	丙烯与顺丁烯二酸酐的接枝聚合物	25722-45-6, 107001-49-0	按生产需要适量使用		30(以顺丁烯二酸计)	3	
155	丙烯与乙烯的聚合物	9010-79-1	按生产需要适量使用				
156	丙烯与乙烯和 1-丁烯的聚合物	25895-47-0	按生产需要适量使用				
157	醋酸丙酸纤维素	9004-39-1	按生产需要适量使用				

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
158	醋酸丁酸纤维素	9004-36-8	按生产需要适量使用				
159	醋酸纤维素	9004-35-7	按生产需要适量使用				
160	淀粉	9005-25-8	按生产需要适量使用				
161	丁醇	71-36-3; 78-83-1; 78-92-2; 75-65-0	按生产需要适量使用				
162	对苯二甲酸	100-21-0	按生产需要适量使用		7.5 (以对苯二甲酸计)	28	
163	对苯二甲酸(或其二甲酯)与间苯二甲酸(或其二甲酯)、1,2-乙二醇和 2,2'-氧代二乙醇的聚合物	27027-87-8	按生产需要适量使用		30(以乙二醇计); 5(以间苯二甲酸计); 7.5(以对苯二甲酸计)	2; 27; 28	
164	对苯二甲酸(或其二甲酯)与间苯二甲酸(或其二甲酯)和 1,2-乙二醇的聚合物	24938-04-3	按生产需要适量使用		30(以乙二醇计); 5(以间苯二甲酸计); 7.5(以对苯二甲酸计)	2; 27; 28	
165	对苯二甲酸二甲酯与 1,4-丁二醇的聚合物	30965-26-5	按生产需要适量使用	0.6(四氢呋喃:SML)	7.5(以对苯二甲酸计); 5(以 1,4-丁二醇计)	28; 30	生产的材料或制品使用温度不得高于 121 ℃
166	对苯二甲酸二甲酯与 2,2,4-三甲基-1,6-己二胺和 2,4,4-三甲基-1,6-己二胺混合物(等摩尔比)的聚合物	9069-93-6; 26246-77-5	按生产需要适量使用	0.05 [2,2,4(和 2,4,4)-三甲基-1,6-己二胺:SML]	7.5(以对苯二甲酸计)	28	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
167	对苯二甲酸与 1,2-乙二醇和 2,2'-氧代二乙醇的聚合物	25052-77-1	按生产需要适量使用		30(以乙二醇计); 7.5(以对苯二甲酸计)	2;28	
168	对苯二甲酸与 1,4-丁二醇和 1,12-十二烷二酸的聚合物	61778-68-5	按生产需要适量使用	0.6(四氢呋喃;SML)	7.5(以对苯二甲酸计);5(以 1,4-丁二醇计)	28;30	
169	二苯基甲烷二异氰酸酯的均聚物	39310-05-9	按生产需要适量使用	1(二苯基甲烷二异氰酸酯;以异氰酸根计,QM)	ND(以异氰酸根计,DL = 0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
170	二甘醇	111-46-6	按生产需要适量使用		30(以乙二醇计)	2	
171	二甘醇与 1,3-异苯并呋喃二酮的聚合物	32472-85-8	按生产需要适量使用		30(以乙二醇计)	2	
172	二乙醇胺	111-42-2	按生产需要适量使用	0.3(二乙醇胺;SML)			
173	富含间戊二烯的 C ₃₋₆ 石油馏分的均聚物及与以下一种或多种单体:异丁烯、苯乙烯和 α -甲基苯乙烯的聚合物	—	按生产需要适量使用	0.05(α -甲基苯乙烯,SML)			生产的材料或制品使用温度不得高于 100 °C
174	癸二酸	111-20-6	按生产需要适量使用				
175	癸二酸与 2,2'-氧双乙醇、1,2-乙二醇、间苯二甲酸、2,2-二甲基-1,3-丙二醇和对苯二甲酸的聚合物	38497-35-7	按生产需要适量使用	0.05(2,2-二甲基-1,3-丙二醇;SML)	30(以乙二醇计);5(以间苯二甲酸计);7.5(以对苯二甲酸计)	2;27;28	不得用于接触乙醇含量超过 8%(体积分数)的食品

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
176	过二硫酸铵与甲基丙烯酸聚合物的钠盐	—	按生产需要适量使用		6(以甲基丙烯酸计)	23	
177	环氧丙烷	75-56-9	按生产需要适量使用	1(环氧丙烷:QM)或ND(环氧丙烷:SML,DL=0.01 mg/kg)			环氧丙烷易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
178	环氧乙烷	75-21-8	按生产需要适量使用	1(环氧乙烷:QM)或ND(环氧乙烷:SML,DL=0.01 mg/kg)			环氧乙烷易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
179	环状-1,2-乙二基乙缩醛与2,2'-氧代双[乙醇]的聚合物	36890-68-3	按生产需要适量使用		30(以乙二醇计);0.05(以6-羟基己酸和己内酯计)	2;29	
180	环状-1,2-乙二基乙缩醛与2-乙基-2(羟甲基)-1,3-丙二醇的聚合物	37625-56-2	按生产需要适量使用	6(2-乙基-2-羟甲基-1,3-丙二醇/三羟甲基丙烷:SML)	0.05(以6-羟基己酸和己内酯计)	29	
181	甲苯二异氰酸酯;1,3-二异氰酸根合甲苯	26471-62-5	按生产需要适量使用	1(甲苯二异氰酸酯;以异氰酸根计,QM)	ND(以异氰酸根计,DL=0.01 mg/kg)	17	仅用于生产PU黏合剂;异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
182	甲醇	67-56-1	3				
183	甲基丙烯酸	79-41-4	按生产需要适量使用		6(以甲基丙烯酸计)	23	
184	甲基丙烯酸-2-(二甲氨基)乙酯与甲基丙烯酸甲酯的聚合物	26222-42-4	按生产需要适量使用	ND[甲基丙烯酸-2-(二甲氨基)乙酯:SML,DL=0.01 mg/kg]	6(以甲基丙烯酸计)	23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
185	甲基丙烯酸铵盐均聚体	30875-88-8	按生产需要适量使用		6(以甲基丙烯酸计)	23	
186	甲基丙烯酸丙烯酯与丙烯酸丁酯、甲基丙烯酸和甲基丙烯酸甲酯的聚合物	92124-73-7	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
187	甲基丙烯酸丁酯	97-88-1	按生产需要适量使用		6(以甲基丙烯酸计)	23	
188	甲基丙烯酸丁酯与丙烯酸-2-乙基己基酯和甲基丙烯酸甲酯的聚合物	52383-91-2	按生产需要适量使用	0.05(丙烯酸-2-乙基己基酯;SML)	6(以甲基丙烯酸计)	23	
189	甲基丙烯酸丁酯与丙烯酸丁酯和甲基丙烯酸甲酯的聚合物	25322-99-0	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
190	甲基丙烯酸丁酯与甲基丙烯酸、甲基丙烯酸甲酯和苯乙烯的聚合物	56793-67-0	按生产需要适量使用		6(以甲基丙烯酸计)	23	
191	甲基丙烯酸丁酯与甲基丙烯酸甲酯的聚合物	25608-33-7	按生产需要适量使用		6(以甲基丙烯酸计)	23	
192	甲基丙烯酸丁酯与甲基丙烯酸甲酯和苯乙烯的聚合物	26634-89-9	按生产需要适量使用		6(以甲基丙烯酸计)	23	
193	甲基丙烯酸丁酯与甲基丙烯酸甲酯和丙烯酸的聚合物	26898-31-7	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
194	甲基丙烯酸丁酯与甲基丙烯酸甲酯和甲基丙烯酸羟丙酯的聚合物	67874-31-1	按生产需要适量使用		6(以甲基丙烯酸计)	23	
195	甲基丙烯酸丁酯与乙烯、甲基丙烯酸甲酯和丙烯的聚合物	127104-68-1	按生产需要适量使用		6(以甲基丙烯酸计)	23	
196	甲基丙烯酸甲酯	80-62-6	按生产需要适量使用		6(以甲基丙烯酸计)	23	
197	甲基丙烯酸甲酯、苯乙烯和 2-丙烯酸聚合物的钠盐	112665-52-8	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
198	甲基丙烯酸甲酯均聚物;聚甲基丙烯酸甲酯	9011-14-7	按生产需要适量使用		6(以甲基丙烯酸计)	23	
199	甲基丙烯酸甲酯与 1,3-丁二烯、苯乙烯和丙烯腈的聚合物	9010-94-0	按生产需要适量使用	ND(1,3-丁二烯: SML, DL = 0.01 mg/kg); ND(丙烯腈: SML, DL = 0.01 mg/kg)	6(以甲基丙烯酸计)	23	
200	甲基丙烯酸甲酯与 1,3-丁二烯、乙烯苯和丙烯酸乙酯的聚合物	27965-85-1	按生产需要适量使用	ND(1,3-丁二烯: SML, DL = 0.01 mg/kg)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
201	甲基丙烯酸甲酯与 1,3-丁二烯和苯乙烯的聚合物	25053-09-2	按生产需要适量使用	ND(1,3-丁二烯: SML, DL = 0.01 mg/kg)	6(以甲基丙烯酸计)	23	
202	甲基丙烯酸甲酯与 2-丙烯酸的聚合物	25322-25-2	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
203	甲基丙烯酸甲酯与 2-甲基-2-丙烯酸缩水甘油酯和苯乙烯的聚合物	29564-58-7	按生产需要适量使用	0.02(2-甲基-2-丙烯酸缩水甘油酯:SML)	6(以甲基丙烯酸计)	23	当 2-甲基-2-丙烯酸缩水甘油酯可与所接触食品或食品模拟物发生反应时,使用 0.02 mg/6 dm ² (QM) 作为其限量值
204	甲基丙烯酸甲酯与苯乙烯、丙烯酸-2-乙基己酯、1-甲基乙烯基苯和 2-丙烯酸的聚合物	112820-51-6	按生产需要适量使用	0.05(丙烯酸-2-乙基己酯:SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
205	甲基丙烯酸甲酯与丙烯酸丁酯、2-丙烯酸-2-羟乙基酯和 2-丙烯酸的聚合物	26062-01-1	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
206	甲基丙烯酸甲酯与丙烯酸丁酯、乙酸乙烯酯和丙烯酸-2-乙基己基酯的聚合物	193542-91-5	按生产需要适量使用	12(乙酸乙烯酯, SML); 0.05(丙烯酸-2-乙基己基酯, SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	生产的材料或制品仅用于室温灌装并在室温下长期贮存(包括热灌装、巴氏消毒或其他热处理)
207	甲基丙烯酸甲酯与丙烯酸丁酯的聚合物	25852-37-3	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
208	甲基丙烯酸甲酯与丙烯酸丁酯与甲基丙烯酸丁酯和甲基丙烯酸-2-(二甲氨基)乙酯的聚合物	127573-73-3	按生产需要适量使用	ND[甲基丙烯酸-2-(二甲氨基)乙酯: SML, DL = 0.01 mg/kg]	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
209	甲基丙烯酸甲酯与丙烯酸甲酯和 2-丙烯酸铵盐的聚合物	38811-87-9	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
210	甲基丙烯酸甲酯与丙烯酸乙酯的聚合物	9010-88-2	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
211	甲基丙烯酸甲酯与乙酸乙烯酯和丙烯酸-2-乙基己基酯的聚合物	26794-25-2	按生产需要适量使用	12(乙酸乙烯酯, SML); 0.05(丙烯酸-2-乙基己基酯, SML)	6(以甲基丙烯酸计)	23	生产的材料或制品仅用于室温灌装并在室温下长期贮存(包括热灌装、巴氏消毒或其他热处理)
212	甲基丙烯酸甲酯与乙烯基苯、丙烯酸-2-乙基己基酯和丙烯酸甲酯的聚合物	74082-28-3	按生产需要适量使用	0.05(丙烯酸-2-乙基己基酯, SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	生产的材料或制品仅用于室温灌装并在室温下长期贮存(包括热灌装、巴氏消毒或其他热处理)
213	甲基丙烯酸甲酯与乙烯基苯和甲基丙烯酸的聚合物	25035-81-8	按生产需要适量使用		6(以甲基丙烯酸计)	23	
214	甲基丙烯酸缩水甘油酯	106-91-2	按生产需要适量使用	0.02(SML)			甲基丙烯酸缩水甘油酯易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
215	甲基丙烯酸乙酯	97-63-2	按生产需要适量使用		6(以甲基丙烯酸计)	23	
216	甲基丙烯酸与丙烯酸丁酯、苯乙烯、(1-甲基乙烯基)苯和甲基丙烯酸甲酯的聚合物铵盐	665004-50-2	按生产需要适量使用	0.05(2-苯丙烯; SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
217	甲基丙烯酸与丙烯酸丁酯、苯乙烯、丙烯酸-2-乙基己基酯和甲基丙烯酸甲酯的聚合物	82539-93-3	50	0.05(丙烯酸-2-乙基己基酯, SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
218	甲基丙烯酸与丙烯酸丁酯、丙烯酸乙酯和甲基丙烯酸甲酯聚合物的铵盐	63120-11-6	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
219	甲基丙烯酸与丁基-2-丙烯酸、苯乙烯、甲基丙烯酸甲酯和2-丙烯酸的聚合物	56385-39-8	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
220	甲基丙烯酸与甲基丙烯酸丁酯的聚合物	26284-14-0	按生产需要适量使用		6(以甲基丙烯酸计)	23	
221	甲基丙烯酸与甲基丙烯酸丁酯和甲基丙烯酸甲酯的聚合物	28262-63-7	按生产需要适量使用		6(以甲基丙烯酸计)	23	
222	甲基丙烯酸与甲基丙烯酸甲酯的聚合物	25086-15-1	按生产需要适量使用		6(以甲基丙烯酸计)	23	
223	甲基丙烯酸与甲基丙烯酸甲酯和丙烯酸甲酯的聚合物	26936-24-3	按生产需要适量使用		6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	生产的材料或制品使用温度不得高于 100 ℃
224	甲基丙烯酸与甲基丙烯酸甲酯聚合物的铵盐	60474-81-9	按生产需要适量使用		6(以甲基丙烯酸计)	23	
225	甲基丙烯酰胺	79-39-0	按生产需要适量使用	ND(甲基丙烯酰胺: SML, DL = 0.01 mg/kg)			
226	甲基化的三聚氰胺与甲醛的聚合物	68002-20-0	按生产需要适量使用	2.5(三聚氰胺: SML)	15(以甲醛计)	15	用于生产婴幼儿专用食品接触材料及制品时, 三聚氰胺 SML 为 1 mg/kg

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
227	甲基氢硅氧烷 与聚硅氧烷	63148-57-2	按生产需要适 量使用				
228	甲醛	50-00-0	按生产需要适 量使用		15 (以 甲 醛 计)	15	
229	甲醛与环己酮 的聚合物	25054-06-2	按生产需要适 量使用		15 (以 甲 醛 计)	15	生产的材料或制 品不得用于接触 含乙醇食品或含 油脂食品
230	间苯二甲酸	121-91-5	按生产需要适 量使用		5 (以 间 苯 二 甲酸计)	27	
231	间苯二甲酸、对 苯二甲酸、1,2- 乙二醇和壬二 酸的聚合物	26336-35-6	按生产需要适 量使用		30 (以 乙 二 醇 计); 5 (以 间 苯 二 甲 酸 计); 7.5 (以 对 苯 二 甲 酸 计)	2; 27; 28	
232	间苯二甲酸与 对苯二甲酸、2, 2-二甲基-1,3- 丙二醇、1,2-乙 二醇和 1,6-己 二醇的聚合物	40471-06-5	按生产需要适 量使用	0.05 (2,2-二甲基-1,3- 丙二醇: SML); 0.05 (1,6-己二醇: SML)	30 (以 乙 二 醇 计); 5 (以 间 苯 二 甲 酸 计); 7.5 (以 对 苯 二 甲 酸 计)	2; 27; 28	
233	间苯二甲酸与 对苯二甲酸、2, 2-二甲基-1,3- 丙二醇和 1,2- 乙 二 醇 的 聚 合物	27923-68-8	按生产需要适 量使用	0.05 (2,2-二甲基-1,3- 丙二醇: SML)	30 (以 乙 二 醇 计); 5 (以 间 苯 二 甲 酸 计); 7.5 (以 对 苯 二 甲 酸 计)	2; 27; 28	生产的材料或制 品不得用于接触 乙醇含量超过 8% (体积分数) 的 食品
234	聚 2,6-二甲基- 1,4-苯醚	25134-01-4	按生产需要适 量使用	0.05 (2,6-二甲基-1,4- 苯酚: SML)			
235	聚丙二醇	25322-69-4	按生产需要适 量使用				
236	聚丙烯酸乙酯	9003-32-1	按生产需要适 量使用		6 (以 丙 烯 酸 计)	22	
237	聚氮杂环十三 烷-2-酮	25038-74-8	按生产需要适 量使用	5 (氮杂环十三烷-2- 酮: SML)			

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
238	聚丁二酸丁二醇酯	25777-14-4	按生产需要适量使用		5(以 1,4-丁二醇计)	30	生产的材料或制品使用温度不得高于 100 ℃
239	聚对苯二甲酸丁二醇酯-聚四氢呋喃醚的嵌段共聚物与顺丁烯二酸酐的反应物	1224447-95-3	按生产需要适量使用	0,6(四氢呋喃;SML)	30(以顺丁烯二酸计);7.5(以对苯二甲酸计);5(以 1,4-丁二醇计)	3;28;30	平均分子量不低于 100 000 Da;顺丁烯二酸酐改性量小于 1%
240	聚对苯二甲酸乙二醇酯	25038-59-9	按生产需要适量使用		30(以乙二醇计);7.5(以对苯二甲酸计)	2;28	
241	聚二甲基硅氧烷	63148-62-9; 9016-00-6	按生产需要适量使用				分子量不低于 6 800 Da
242	聚二甲基硅氧烷和苯基倍半硅氧烷的聚合物	73138-88-2	按生产需要适量使用				
243	聚合松香	65997-05-9	按生产需要适量使用				
244	聚甲基丙烯酸钠	54193-36-1	按生产需要适量使用		6(以甲基丙烯酸计)	23	
245	聚乳酸	9051-89-2	按生产需要适量使用				生产的材料或制品使用温度不得高于 100 ℃
246	聚乙二醇与 1-癸醇封端的 4,4'-二环己基甲烷二异氰酸酯的聚合物	70879-50-4	按生产需要适量使用	1(4,4'-二环己基甲烷二异氰酸酯;以异氰酸根计,QM);1(环氧乙烷;QM)或 ND(环氧乙烷;SML,DL=0.01 mg/kg)	30(以乙二醇计);ND(以异氰酸根计,DL=0.01 mg/kg)	2;17	异氰酸酯类物质和环氧乙烷易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
247	聚乙二醇与 4,4'-二环己基甲烷二异氰酸酯的聚合物	39444-87-6	按生产需要适量使用	1(4,4'-二环己基甲烷二异氰酸酯;以异氰酸根计,QM)		2;17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
248	聚乙酸乙烯酯	9003-20-7	按生产需要适 量使用	12（醋酸乙烯酯： SML）			
249	邻苯二甲酸	88-99-3	按生产需要适 量使用				
250	邻苯二甲酸酐	85-44-9	按生产需要适 量使用				
251	磷酸	7664-38-2	按生产需要适 量使用				
252	硫酸	7664-93-9	按生产需要适 量使用				
253	六亚甲基二异 氰酸酯的均 聚物	28182-81-2	按生产需要适 量使用	1（六亚甲基二异氰酸 酯：以异氰酸根计， QM）	ND（以异氰 酸根计，DL = 0.01 mg/ kg）	17	异氰酸酯类物质 易与水基食品模 拟物发生反应，可 采用残留量筛查 迁移量验证其合 规性
254	氯乙烯和乙酸 乙烯的聚合物	9003-22-9	按生产需要适 量使用	12（乙酸乙烯酯： SML）；ND（氯乙 烯：SML，DL = 0.01 mg/ kg）或 1（氯乙烯，QM）			
255	苯磺酸与甲醛 聚合物的钠盐	9084-06-4	按生产需要适 量使用		15（以甲醛 计）	15	
256	尿素与甲醛和 异丁基醇的聚 合物	68002-18-6	按生产需要适 量使用		15（以甲醛 计）	15	
257	羟基封端的聚 二甲基硅氧烷； 羟基封端的二 甲基（硅氧烷与 聚硅氧烷）	70131-67-8	有机硅黏合剂： 按生产需要适 量使用				
258	羟乙基纤维素	9004-62-0	按生产需要适 量使用				
259	氢化处理的 石蜡	64742-51-4	按生产需要适 量使用				

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
260	氢化的芳香族 石油烃树脂	88526-47-0	按生产需要适 量使用				由沸点不高于 220 ℃的裂化石 油馏分中芳香取 代烯烃经催化或 热聚合、蒸馏、加 氢还原等工艺制 成；软化温度不得 低于 110 ℃；苯胺 点不得低于 107 ℃； 芳香族单体残留 量总量不得超过 50 mg/kg
261	氢化树脂酸和 松香酸甘油酯	65997-13-9	按生产需要适 量使用				
262	氢化树脂酸和 松香酸甲酯	8050-15-5	按生产需要适 量使用				
263	氢化松香	65997-06-0	按生产需要适 量使用				
264	氢化松香酸季 戊四醇酯	64365-17-9	按生产需要适 量使用				
265	氢氧化铵	1336-21-6	按生产需要适 量使用				
266	氢氧化钠	1310-73-2	按生产需要适 量使用				
267	三聚氰胺与丁 基化甲醛的聚 合物	68002-25-5	按生产需要适 量使用	2.5(三聚氰胺；SML)	15（以甲 醛计）	15	用于生产婴幼儿 专用食品接触材 料及制品时，三 聚氰胺 SML 为 1 mg/kg
268	三聚氰胺与甲 醛的聚合物	9003-08-1	按生产需要适 量使用	2.5(三聚氰胺；SML)	15（以甲 醛计）	15	用于生产婴幼儿 专用食品接触材 料及制品时，三 聚氰胺 SML 为 1 mg/kg

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
269	三羟基聚氧化 丙烯醚	25791-96-2	按生产需要适 量使用	1(环氧丙烷:QM)或 ND(环氧丙烷:SML, DL=0.01 mg/kg)			仅用于生产间接 接触食品的黏合 剂且与食品之间 应有有效阻隔层; 生产的材料或制 品仅限用于接触 干性食品;三羟基 聚氧化丙烯醚平 均分子质量不低 于 250 Da;环氧丙 烷易与水基食品 模拟物发生反应, 可采用残留量筛 查迁移量验证其 合规性
270	三乙醇胺	102-71-6	按生产需要适 量使用	0.05(三乙醇胺:SML)			
271	三异丙醇胺	122-20-3	按生产需要适 量使用	5(三异丙醇胺:SML)			
272	食用植物油	—	按生产需要适 量使用				
273	树脂酸和松香 酸;季戊四醇松 脂酸酯	8050-26-8	按生产需要适 量使用				
274	双酚 A 二缩水 甘油醚均聚物	25085-99-8	按生产需要适 量使用	0.05(4,4'-二羟基二 苯基丙烷/双酚 A: SML);9 mg/6 dm ² [以 BADGE、BADGE· H ₂ O 和 BADGE· 2H ₂ O 之和计;QM] 或 9[以 BADGE、 BADGE·H ₂ O 和 BADGE·2H ₂ O 之和 计;SML(T)];1 mg/ 6 dm ² [以 BADGE· HCl、BADGE·2HCl 和 BADGE·H ₂ O· HCl 之和计;QM]或 1 [以 BADGE·HCl、 BADGE·2HCl 和 BADGE·H ₂ O·HCl 之和计;SML(T)]			不得用于生产婴 幼儿专用食品接 触材料及制品

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
275	顺丁烯二酸	110-16-7	按生产需要适 量使用		30(以顺丁烯 二酸计)	3	
276	顺丁烯二酸酐	108-31-6	按生产需要适 量使用		30(以顺丁烯 二酸计)	3	
277	顺丁烯二酸酐 改性聚丙烯	119415-04-2	按生产需要适 量使用		30(以顺丁烯 二酸计)	3	
278	顺丁烯二酸酐 与苯乙烯聚合 物的铵盐	26022-09-3	按生产需要适 量使用		30(以顺丁烯 二酸计)	3	
279	顺丁烯酸与 1, 3-丁二烯、苯乙 烯、丙烯腈和 2-丙烯酸 的聚 合物	208448-02-6	按生产需要适 量使用	0.05(丁烯酸:SML); ND(1, 3-丁二烯: SML, DL = 0.01 mg/ kg); ND(丙烯腈: SML, DL = 0.01 mg/ kg)	6(以丙烯酸 计)	22	无相应的丁烯酸 迁移量检测方法 时可使用 0.05 mg/6 dm ² (QM) 作为其限量值
280	顺丁烯酸与 1, 3-丁二烯、苯乙 烯、亚甲基丁二 酸和丙烯腈的 聚合物	153085-93-9	按生产需要适 量使用	0.05(丁烯酸:SML); ND(1, 3-丁二烯: SML, DL = 0.01 mg/ kg); ND(丙烯腈: SML, DL = 0.01 mg/ kg)			无相应的丁烯酸 迁移量检测方法 时可使用 0.05 mg/6 dm ² (QM) 作为其限量值
281	四氟乙烯均聚 物;聚四氟乙烯	9002-84-0	按生产需要适 量使用	0.05(四氟乙烯:SML)			生产的材料或制 品使用温度不得 高于 250 ℃
282	四氟乙烯与六 氟丙烯的聚 合物	25067-11-2	按生产需要适 量使用	0.05(四氟乙烯: SML); 0.01(六氟丙 烯:SML)			
283	四氢呋喃	109-99-9	按生产需要适 量使用	0.6(四氢呋喃:SML)			
284	松香	8050-09-7	按生产需要适 量使用				
285	松香甘油酯	8050-31-5	按生产需要适 量使用				
286	亚甲基丁二酸	97-65-4	按生产需要适 量使用				

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
287	亚甲基丁二酸与 1,3-丁二烯、苯乙烯、丙烯腈和 2-丙烯酸酯的聚合物	118948-85-9	按生产需要适量使用	ND (1, 3-丁二烯: SML, DL = 0.01 mg/kg); ND (丙烯腈: SML, DL = 0.01 mg/kg)	6 (以丙烯酸计)	22	
288	亚甲基丁二酸与 1,3-丁二烯、苯乙烯和 2-丙烯酸-2-羟乙酯的聚合物	36089-06-2	按生产需要适量使用	ND (1, 3-丁二烯: SML, DL = 0.01 mg/kg); 6 (2-丙烯酸-2-羟乙酯: SML)			
289	亚甲基丁二酸与 1,3-丁二烯、乙烯基苯和 2-丙烯酸酯的聚合物	26102-56-7	按生产需要适量使用	ND (1, 3-丁二烯: SML, DL = 0.01 mg/kg)	6 (以丙烯酸计)	22	
290	亚甲基丁二酸与丙烯酸乙酯和甲基丙烯酸甲酯的聚合物	24980-96-9	按生产需要适量使用		6 (以丙烯酸计); 6 (以甲基丙烯酸计)	22; 23	
291	氧化乙烯的均聚物	68441-17-8	按生产需要适量使用	1 (环氧乙烷: QM) 或 ND (环氧乙烷: SML, DL = 0.01 mg/kg)			环氧乙烷均易与水基食品模拟物发生反应, 可采用残留量筛查迁移量验证其合规性
292	乙醇胺	141-43-5	按生产需要适量使用	0.05 (乙醇胺: SML)			生产的材料或制品不得用于接触含油脂食品
293	乙基化甲基化甲醛与 6-苯基-1,3,5-三嗪-2,4-二胺的聚合物; 丁醇化的脲与甲醛的聚合物	68002-19-7; 68037-08-1	按生产需要适量使用		15 (以甲醛计)	15	
294	乙酸钠	127-09-3	按生产需要适量使用				
295	乙酸乙烯酯	108-05-4	按生产需要适量使用	12 (乙酸乙烯酯: SML)			

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
296	乙酸乙烯酯与氯乙烯、反丁烯二酸和甲基丙烯酸缩水甘油酯的聚合物;乙酸乙烯酯与氯乙烯、反丁烯二酸和 2-甲基-2-丙烯酸环氧乙烷基甲基酯	—	按生产需要适量使用	12 (乙酸乙烯酯:SML); ND (氯乙烯:SML, DL = 0.01 mg/kg) 或 1 (氯乙烯:QM); 0.02 (2-甲基-2-丙烯酸环氧乙烷基甲基酯:SML)			甲基丙烯酸缩水甘油酯易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性;当 2-甲基-2-丙烯酸环氧乙烷基甲基酯与所接触食品或食品模拟物发生反应时,可使用 0.02 mg/6 dm ² (QM) 作为其限量值
297	乙酸乙烯酯与氯乙烯和乙烯醇的聚合物	25086-48-0	按生产需要适量使用	12 (乙酸乙烯酯:SML); ND (氯乙烯:SML, DL = 0.01 mg/kg) 或 1 (氯乙烯, QM)			
298	乙酸乙烯酯与乙烯醇的聚合物	25213-24-5	按生产需要适量使用	12 (乙酸乙烯酯:SML)			
299	乙烯	74-85-1	按生产需要适量使用				
300	乙烯醇均聚物	9002-89-5	按生产需要适量使用	12 (乙酸乙烯酯:SML)			生产的材料或制品仅用于接触水分含量低的油脂和干性食品,使用温度不得高于 100 °C
301	乙烯-乙酸乙烯酯的聚合物	24937-78-8	按生产需要适量使用	12 (乙酸乙烯酯:SML)			
302	乙烯与 1-丁烯的聚合物	9019-29-8	按生产需要适量使用				
303	乙烯与 1-丁烯和顺丁烯二酸酐的聚合物	63625-36-5	按生产需要适量使用		30 (以顺丁烯二酸计)	3	
304	乙烯与 1-丁烯和顺丁烯二酸酐的聚合物	107137-84-8	按生产需要适量使用		30	3	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
305	乙烯与 1-己烯、丙烯和顺丁烯二酸酐的聚合物	85023-55-8	按生产需要适量使用	3(己烯：SML)	30(以顺丁烯二酸计)	3	
306	乙烯与 1-己烯的聚合物	25213-02-9	按生产需要适量使用	3(己烯：SML)			
307	乙烯与 1-己烯的聚合物与顺丁烯二酸酐的反应产物	108388-93-8	按生产需要适量使用	3(己烯：SML)	30(以顺丁烯二酸计)	3	
308	乙烯与 1-己烯和 1-丁烯的聚合物	60785-11-7	按生产需要适量使用	3(己烯：SML)			
309	乙烯与 1-辛烯的聚合物	26221-73-8	按生产需要适量使用	15(辛烯：SML)			
310	乙烯与 1-辛烯和顺丁烯二酸酐的聚合物	85244-45-7	按生产需要适量使用	15(辛烯：SML)	30(以顺丁烯二酸计)	3	
311	乙烯与 1-辛烯聚合物与顺丁烯二酸酐的反应产物	114571-44-7	按生产需要适量使用	15(辛烯：SML)	30(以顺丁烯二酸计)	3	
312	乙烯与 2-丙烯酸聚合物的钠盐	25750-82-7	按生产需要适量使用		6(以丙烯酸计)	22	
313	乙烯与 2-丙烯酸聚合物的锂盐	25702-94-7	按生产需要适量使用	0.6(锂：SML)	6(以丙烯酸计)	22	
314	乙烯与 2-甲基丙烯酸的聚合物	25053-53-6	按生产需要适量使用		6(以甲基丙烯酸计)	23	
315	乙烯与 2-甲基丙烯酸聚合物的钠盐	25608-26-8	按生产需要适量使用		6(以甲基丙烯酸计)	23	
316	乙烯与丙烯和 1-己烯的聚合物	25895-46-9	按生产需要适量使用	3(己烯：SML)			

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
317	乙烯与丙烯和 5-亚乙基-2-降冰片烯的聚合物	25038-36-2	按生产需要适量使用	0.05(5-亚乙基-2-降冰片烯;SML)			
318	乙烯与丙烯和顺丁烯二酸酐的聚合物	106177-14-4	按生产需要适量使用		30(以顺丁烯二酸计)	3	
319	乙烯与丙烯和顺丁烯二酸酐的聚合物	31069-12-2	按生产需要适量使用		30(以顺丁烯二酸计)	3	
320	乙烯与丙烯酸酯的聚合物锌盐	28208-80-2	按生产需要适量使用	5(以锌计;SML)	6(以丙烯酸计)	22	
321	乙烯与丙烯酸丁酯的聚合物	25750-84-9	按生产需要适量使用		6(以丙烯酸计)	22	
322	乙烯与丙烯酸丁酯和顺丁烯二酸酐的聚合物	64652-60-4	按生产需要适量使用		30(以顺丁烯二酸计);6(以丙烯酸计);	3;22	
323	乙烯与丙烯酸丁酯和一氧化碳的聚合物	61843-70-7	按生产需要适量使用		6(以丙烯酸计)	22	
324	乙烯与丙烯酸甲酯和顺丁烯二酸酐的聚合物	88450-35-5	按生产需要适量使用		30(以顺丁烯二酸计);6(以丙烯酸计)	3;22	
325	乙烯与丙烯酸乙酯的聚合物	9010-86-0	按生产需要适量使用		6(以丙烯酸计)	22	
326	乙烯与甲基丙烯酸和丙烯酸丁酯聚合物的钠盐	52255-42-2	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	
327	乙烯与甲基丙烯酸和丙烯酸异丁酯的聚合物	37433-35-5	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	
328	乙烯与甲基丙烯酸和丙烯酸异丁酯聚合物的钾盐	93228-27-4	按生产需要适量使用		6(以丙烯酸计);6(以甲基丙烯酸计)	22;23	

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求 (续)

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
329	乙烯与甲基丙烯酸和丙烯酸异丁酯聚合物的锌盐	61843-71-8	按生产需要适量使用	5(以锌计: SML)	6(以丙烯酸计); 6(以甲基丙烯酸计)	22;23	
330	乙烯与甲基丙烯酸聚合物的钾盐	26376-80-7	按生产需要适量使用		6(以甲基丙烯酸计)	23	
331	乙烯与甲基丙烯酸聚合物的锌盐	28516-43-0	按生产需要适量使用	5(以锌计: SML)	6(以甲基丙烯酸计)	23	
332	乙烯与甲基丙烯酸缩水甘油酯的聚合物	26061-90-5	按生产需要适量使用	0.02(甲基丙烯酸缩水甘油酯: SML)	6(以甲基丙烯酸计)	23	
333	乙烯与顺丁烯二酸酐的改性聚合物	9006-26-2	按生产需要适量使用		30(以顺丁烯二酸计)	3	
334	乙烯与顺丁烯二酸酐的接枝聚合物	106343-08-2	按生产需要适量使用		30(以顺丁烯二酸计)	3	
335	乙烯与顺丁烯二酸酐和 1-己烯的聚合物	86286-09-1	按生产需要适量使用	3(己烯: SML)	30(以顺丁烯二酸计)	3	
336	乙烯与乙酸乙烯酯和甲基丙烯酸的聚合物	26375-31-5	按生产需要适量使用	12(乙酸乙烯酯: SML)	6(以甲基丙烯酸计)	23	
337	乙烯与乙酸乙烯酯和顺丁烯二酸酐的聚合物	28064-24-6	按生产需要适量使用	12(乙酸乙烯酯: SML)	30(以顺丁烯二酸计)	3	
338	乙烯与乙酸乙烯酯和一氧化碳的聚合物	26337-35-9	按生产需要适量使用	12(乙酸乙烯酯: SML)			
339	异佛尔酮二异氰酸酯; 1,3,3-三甲基-5-异氰酸基-1-异氰酸(基)甲基环己烷	4098-71-9	按生产需要适量使用	1(异佛尔酮二异氰酸酯: 以异氰酸根计, QM)	ND(以异氰酸根计, DL = 0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应, 可采用残留量筛查迁移量验证其合规性

表 B.1 间接接触食品用黏合剂允许使用的基础原料及使用要求（续）

序号	中文名称	CAS 号	最大使用量 %	SML/QM mg/kg	SML(T) mg/kg	SML(T) 分组编号	其他要求
340	异佛尔酮二异氰酸酯的均聚物	53880-05-0	按生产需要适量使用	1(异佛尔酮二异氰酸酯:以异氰酸根计,QM)	ND(以异氰酸根计,DL=0.01 mg/kg)	17	异氰酸酯类物质易与水基食品模拟物发生反应,可采用残留量筛查迁移量验证其合规性
341	蒸汽裂解轻芳烃的石脑油与富含 1,3-戊二烯蒸汽裂解轻芳烃的石脑油和蒸汽裂解中芳烃的石脑油的聚合物	68527-25-3	60				



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