

## Ministry of Employment and Labor Public Notice No. 2016-19

# Standards for Classification and Labeling of Chemical Substance and Material Safety Data Sheet

Enacted 1996.4.9 (Ministry of Labor Notice No. 96-12)  
Amended 1996.6.17 (Ministry of Labor Notice No. 96-24)  
Amended 1997.1.4 (Ministry of Labor Notice No. 96-58)  
Amended 1997.10.17 (Ministry of Labor Notice No. 97-27)  
Amended 2006.12.12 (Ministry of Labor Notice No. 2006-36)  
Amended 2008.1.10 (Ministry of Labor Notice No. 2008- 1)  
Amended 2008.6.27 (Ministry of Labor Notice No. 2008-29)  
Amended 2009.10.26 (Ministry of Labor Notice No. 2009-68)  
Amended 1.26 (Ministry of Employment and Labor Notice No. 2012-14)  
Amended 2013. 8.14 (Ministry of Employment and Labor Notice No. 2013-37)  
Amended 2016. 4. 6 (Ministry of Employment and Labor Notice No. 2016-19)

## Chapter 1 General Provisions

Article 1 (Objective) The objective of this notice is to define the matters necessary pertaining to classification of chemical substances, warning labels, Material Safety Data Sheets & employee training, etc. pursuant to Article 39 Paragraph 1 and Article 41 of the [Occupational Health and Safety Act], Article 32-2 of the enforcement ordinances of the same Act, Article 81 Paragraph 1, Article 92 Paragraph 2 through Paragraph 10 of the enforcement regulations of the same Act, and Appendix 11-2.

Article 2 (Definitions) The definition of terms used in this notice is as follows.

1. “Chemical substance” means substances produced as a result of a chemical reaction of chemical elements.
2. “Preparation containing chemical substances” means a mixture or a solution comprised of two or more chemical substances.
3. <Deleted>
4. “Manufacturer” refers to companies that produce, process, combine, or repackage chemical substances or preparation containing chemical substances for purposes of use or sale.
5. “Importer” refers to companies that import chemical substances or preparation containing

## B. Classification of Single Substances

| Category | Category standards   |
|----------|--|
| 1        | <p>Substances of which Acute Toxicity Estimate (ATE) value is applicable to any one of the following</p> <ul style="list-style-type: none"> <li>① Oral: ATE ≤ 5 (mg/kg)</li> <li>② Dermal: ATE ≤ 50 (mg/kg)</li> <li>③ Inhalation <ul style="list-style-type: none"> <li>· Gas: ATE ≤ 100 (ppm)</li> <li>· Vapor : ATE ≤ 0.5 (mg/L)</li> <li>· Dust or mist: ATE ≤ 0.05 (mg/L)</li> </ul> </li> </ul>  |
| 2        | <p>Substances of which Acute Toxicity Estimate (ATE) value is applicable to any one of the following</p> <ul style="list-style-type: none"> <li>① Oral: 5 &lt; ATE ≤ 50 (mg/kg)</li> <li>② Dermal : 50 &lt; ATE ≤ 200 (mg/kg)</li> <li>③ Inhalation <ul style="list-style-type: none"> <li>· Gas: 100 &lt; ATE ≤ 500 (ppm)</li> <li>· Vapor : 0.5 &lt; ATE ≤ 2.0 (mg/L)</li> <li>· Dust or mist: 0.05 &lt; ATE ≤ 0.5 (mg/L)</li> </ul> </li> </ul>           |
| 3        | <p>Substances of which Acute Toxicity Estimate (ATE) value is applicable to any one of the following</p> <ul style="list-style-type: none"> <li>① Oral: 50 &lt; ATE ≤ 300 (mg/kg)</li> <li>② Dermal : 200 &lt; ATE ≤ 1,000 (mg/kg)</li> <li>③ Inhalation <ul style="list-style-type: none"> <li>· Gas: 500 &lt; ATE ≤ 2,500 (ppm)</li> <li>· Vapor : 2.0 &lt; ATE ≤ 10 (mg/L)</li> <li>· Dust or mist: 0.5 &lt; ATE ≤ 1.0 (mg/L)</li> </ul> </li> </ul>      |
| 4        | <p>Substances of which Acute Toxicity Estimate (ATE) value is applicable to any one of the following</p> <ul style="list-style-type: none"> <li>① Oral: 300 &lt; ATE ≤ 2,000 (mg/kg)</li> <li>② Dermal : 1,000 &lt; ATE ≤ 2,000 (mg/kg)</li> <li>③ Inhalation <ul style="list-style-type: none"> <li>· Gas: 2,500 &lt; ATE ≤ 20,000 (ppm)</li> <li>· Vapor : 10 &lt; ATE ≤ 20 (mg/L)</li> <li>· Dust or mist: 1.0 &lt; ATE ≤ 5 (mg/L)</li> </ul> </li> </ul> |

1) ATE (Acute Toxicity Estimate) means the estimated lethal dose, and it is derived through one of the following.

A) If available for use, LD50 or LC50

B) Value derived and converted from the toxicity test results calculated based of volume by

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| Corporate  | √                       | √(Full version) | √      | √               | √       | √                            | √                            | √             | √                   | √                    |
| Unlimited  | √                       | √(Full version) | √      | √               | √       | √                            | √                            | √             | √                   | √                    |