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| **ACTUE ORAL TOXICITY – Annex 1** |
|  | **Category 1** | **Category 2** | **Category 3** | **Category 4** | **Category 5** |
| **LD50** | **≤** 5 mg/kg | **>** 5 **<** 50 mg/kg | **≥** 50 **<** 300 mg/kg | **>** 300 **≤** 2000 mg/kg | **≥**2000 and **<**5000 mg/kg |
| **Pictogram** |  |  |  |  | No Symbol |
| **Signal Word** | Danger | Danger | Danger | Warning | Warning |
| **Hazard****Statement** | Fatal if Swallowed | Fatal if Swallowed | Fatal if Swallowed | Harmful if Swallowed | May be harmful if Swallowed |

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**Toxicity:** Categories 1 and 2 considered to be ***highly toxic*** having acute toxicity.

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| **Acute****Toxicity** | **Category 1** | **Category 2** | **Category 3** | **Category 4** | **Category** **5** |
| Oral(mg/kg) | **≤** 5 | **>** 5**≤** 50 | **>** 50**≤** 300 | **>** 300**≤** 2000 | **Criteria:*** Anticipated oral LD50 between 2000 and 5000 mg/kg;
* Indication of significant effect in humans; \*
* Any mortality at class 4; \*
* Significant clinical signs at class 4; \*
* Indications from other studies. \*

**\***If assignment to a more hazardous class is not warranted |
| Dermal(mg/kg) | **≤** 50 | **>** 50**≤** 200 | **>** 200**≤** 1000 | **>** 1000**≤** 2000 |
| Gases(ppm) | **≤** 100 | **>** 100**≤** 500 | **>** 500**≤** 2500 | **>** 2500**≤** 5000 |
| Oral(mg/l) | **≤** 0.5 | **>** 0.5**≤** 2.0 | **>** 2.0**≤** 10 | **>** 10**≤** 20 |
| Oral(mg/l) | **≤** 0.05 | **>** 0.05**≤** 0.5 | **>** 0.5**≤** 1.0 | **>** 1.0**≤** 5 |

**Skin Corrosion/Irritation:** considered to be reversible, corrosion is not. One typical characteristics of corrosive material is extreme pH like ≤2 or ≥ 11.5.

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| **Skin Corrosion****Category 1** | **Skin Irritation****Category 2** | **Mild Skin Irritation****Category 3** |  |
| Destruction of dermal tissue: visible necrosis in at least one animal | Reversible adverse effects in dermal tissue | Reversible adverse effects in dermal tissue |
| Subcategory 1AExposure **<** 3 minObservation **<** 1 hr. | Subcategory 1BExposure **<** 3 minObservation **<** 14 days | Subcategory 1CExposure **<** 4 hrs.Observation **<** 14 days | Draize Score: **≥** 2.3 **<** 4.0 or persistent information | Draize Score: **≥** 1.5 **<** 2.3 |

**Eye Effects**: Irritation considered to be reversible, serious damage is not. One typical characteristic of corrosive material is extreme pH like ≤2 or ≥ 11.5.

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| **Category 1****Serious eye damage**  | **Category 2****Eye Irritation** |
| **Irreversible damage 21 days after exposure****Draize score:** **Corneal opacity ≥ 3****Iritis ≥ 1.5** | **Reversible adverse effects on cornea, iris,** **conjunctiva****Draize score:** **Corneal opacity ≥ 1****Iritis ≥ 1****Redness ≥ 2****Chemosis ≥ 2** |  |
|  | **Irritant****Subcategory 2A****Reversible in 21 days** | **Mild Irritant****Subcategory 2B****Reversible in 7 days** |

**Sensitizers**: Two categories and skin. Respiratory sensitizers induce hypersensitivity of the always following inhalation of the substance. Skin sensitizers (equivalent to contact sensitizers) induce an allergic response following skin contact.

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| Respiratory Sensitizer:  | Skin Sensitizer:  |

**Germ Cell Mutagenicity** (left table) and **Carcinogenicity** (right table)

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| **Category 1 Known/Presumed** | **Category 2 Suspected/Possible** |
| Known to produce heritable mutations in human germ cells | * May induce heritable mutations in human germ cells
* Positive evidence from tests in mammals and somatic cell tests
* *In vivo* somatic genotoxicity supported by *in vito* mutagenicity
 |
| Subcategory 1A Positive evidence from epidemiological studies | Subcategory 1B Positive results in:* *In vivo* heritable germ cell tests in mammals
* Human germ cell tests
* *In vivo* somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
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| **Category 1****Known or Presumed Carcinogen** | **Category 2****Suspected Carcinogen** |
| Subcategory 1A**Known or Human Carcinogen**Based on human evidence | Subcategory 1BPresumed Human CarcinogenBased on demonstrated animal carcinogenicity | Limited evidence of human or animal carcinogenicity |

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| **Reproductive toxicity**

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| **Category 1** | **Category 2 Suspected** | **Additional Category** |
| Known or presumed to cause effects on human reproduction or on development  | Human or animal evidence possibly with other information  | Effects on or via lactation |  |
| **Category 1A****Known**Based on human evidence | **Category 1B****Presumed**Based on experimental animals |

 | **Acute and Chronic Aquatic Toxicology**

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| **Acute Cat. I**Acute toxicity ≤ 1.00 mg/l | **Acute Cat. II**Acute toxicity > 1.00 but ≤ 10.0 mg/l | **Acute Cat. III**Acute toxicity > 1.00 but < 100.0 mg/l |
| **Chronic Cat. I**Acute toxicity**≤** 1.00 mg/ and lack of rapiddegradability and log Kow **≥** 4unless BCF **<** 500 | **Chronic Cat. II**Acute toxicity**>** 1.00 but **≤** 10.0 mg/l and lack of rapid degradability and log Kow **≥** 4unless BCF < 500 and unless chronic toxicity **>** 1 mg/l | **Chronic Cat. III**Acute toxicity**>** 10.0 but **≤** 100 mg/l and lack of rapid degradability and log Kow **≥** 4unless BCF < 500 and unless chronic toxicity > 1 mg/l | **Chronic Cat. IV**Acute toxicity**>** 100 mg/l and lack of rapid degradability and log Kow **≥** 4unless BCF < 500 and unless chronic toxicity **>** 1 mg/l |  |

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