Printing date 08/04/2023

Reviewed on 08/04/2023

| Product identifier | |
|--|--|
| Trade name: <u>Dinitrophenylhydrazine</u> in Methanol (with HCl) | |
| Article number: UC012 | |
| Details of the supplier of the safety data sheet Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586 | AQUA SOLUTIONS |
| Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 | |
| | |
| | |
| Hazard(s) identification | |
| Hazard(s) identification Classification of the substance or mixture | |
| | |
| Classification of the substance or mixture | H225 Highly flammable liquid and vapor. |
| Classification of the substance or mixture GHS02 Flame | H225 Highly flammable liquid and vapor. |
| Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 | H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. |
| Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones | |
| Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 | H301 Toxic if swallowed. |
| Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 | H301 Toxic if swallowed. H311 Toxic in contact with skin. |
| Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 | H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. |
| Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Exposure | H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. 1 H370 Causes damage to the central nervous system and |
| Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Exposure | H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. 1 H370 Causes damage to the central nervous system and the visual organs. ure 2 H373 May cause damage to organs through prolonged or the state of the st |
| Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard Specific Target Organ Toxicity - Single Exposure Specific Target Organ Toxicity - Repeated Exposure | H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. 1 H370 Causes damage to the central nervous system and the visual organs. ure 2 H373 May cause damage to organs through prolonged or the state of the st |

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Trade name: Dinitrophenylhydrazine in Methanol (with HCl)

(Contd. of page 1) · Hazard pictograms GHS02 GHS05 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol Hydrochloric Acid 2,4-Dinitrophenylhydrazine · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. Causes damage to the central nervous system and the visual organs. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. *Use explosion-proof electrical/ventilating/lighting/equipment.* Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/physician. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 3Reactivity = 0(Contd. on page 3)

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(Contd. of page 2)

· HMIS-ratings (scale 0 - 4)

· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

| | · Dangerous components: | | |
|---|-------------------------------------|----------------------------|---------|
| Γ | CAS: 67-56-1 | Methanol | 43.319% |
| | CAS: 7647-01-0 | Hydrochloric Acid | 5.545% |
| | CAS: 119-26-6 | 2,4-Dinitrophenylhydrazine | 0.387% |
| Γ | · Table of Nonhazardous Ingredients | | |
| | CAS: 7732-18-5 Water 50. | | |

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

 \cdot After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 4)

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| | | (Contd. of page |
|--------------------------|--|-----------------|
| | nsuitable extinguishing agents: Water with full jet | |
| | ing from the substance or mixture | |
| | case of fire poisonous gases are produced. | |
| · Advice for firefighter | rs t: Mouth respiratory protective device. | |
| | | |
| 6 Accidental releas | e measures | |
| · Personal precaution | s, protective equipment and emergency procedures | |
| Mount respiratory pr | | |
| | pment. Keep unprotected persons away. | |
| | autions: Do not allow to enter sewers/ surface or ground water. | |
| | al for containment and cleaning up: | |
| | inding material (sand, diatomite, acid binders, universal binders, sawdust). | |
| Use neutralizing age | | |
| | d material as waste according to section 13. | |
| Ensure adequate ven | | |
| • Reference to other se | ecuons prmation on safe handling. | |
| | prmation on safe handling. | |
| See Section 13 for di | | |
| · Protective Action Cr | | |
| · PAC-1: | ,, ,, , | |
| CAS: 67-56-1 Me | thanol | 530 pp |
| CAS: 7647-01-0 Hyd | drochloric Acid | 1.8 ppn |
| · PAC-2: | | |
| | thanol | 2,100 pp |
| CAS: 7647-01-0 Hyd | drochloric Acid | 22 ppm |
| • PAC-3: | | |
| | thanol | 7200* pp |
| CAS: 7647-01-0 Hyd | ducablania Asid | 100 ppm |

7 Handling and storage

· Handling:

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
 Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.

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| • Further information about storage conditions: | • |
|---|---|
| Keep receptacle tightly sealed. | |

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

| CAS: 67-56-1 Methanol | |
|--|---|
| PEL | Long-term value: 260 mg/m ³ , 200 ppm |
| REL | Short-term value: 325 mg/m³, 250 ppm |
| | Long-term value: 260 mg/m ³ , 200 ppm |
| | Skin |
| TLV | Short-term value: 250 ppm |
| | Long-term value: 200 ppm Skin; BEI |
| CAS: 7647-01-0 Hydrochloric Acia | |
| NIOSH RECOMENDED EXP LIMI | |
| PEL | 0 0 0 |
| | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| REL | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| TLV | Ceiling limit value: 2 ppm A4 |
| | |
| Ingredients with biological limit va | lues: |
| CAS: 67-56-1 Methanol | |
| BEI 15 mg/L | |
| LD50 Intraperitoneal: urine | |
| <i>Time: end of shift</i> <i>LD50: Methanol (background,</i> | nonspecific) |
| | nonspecific) that were valid during the creation were used as basis. |
| | un were vand daring me creation were used as basis. |
| • Exposure controls | |
| • Personal protective equipment: • General protective and hygienic me | 201511705. |
| Keep away from foodstuffs, beverag | |
| Immediately remove all soiled and o | |
| Wash hands before breaks and at th | |
| Store protective clothing separately | |
| Avoid contact with the eyes. | |
| Avoid contact with the eyes and skin Breathing equipment: | ι. |
| | lution use respiratory filter device. In case of intensive or longer exposure use independent of circulating air |
| respiratory protective device that is | (Contd. on page 6 |
| | |

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Trade name: Dinitrophenylhydrazine in Methanol (with HCl)

(Contd. of page 5)

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

| Information on basic physical and General Information | chemical properties |
|---|--|
| Appearance: | |
| Form: | Liquid |
| Color: | Yellow-orange |
| Odor: | Methanol |
| Odor threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: | Undetermined. 64.4 °C (147.9 °F) |
| Flash point: | 11 °C (51.8 °F) |
| Flammability (solid, gaseous): | Highly flammable. |
| Auto igniting: | 455 °C (851 °F) |
| Decomposition temperature: | Not determined. |
| Ignition temperature: | Product is not selfigniting. |
| Danger of explosion: | Product is not explosive. However, formation of explosive air/vapo mixtures are possible. |
| Explosion limits: Lower: | 5.5 Vol % |

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Trade name: Dinitrophenylhydrazine in Methanol (with HCl)

| | (Contd. | of page |
|---------------------------------------|---|---------|
| Upper: | 44 Vol % | |
| · Vapor pressure at 20 °C (68 °F): | 128 hPa (96 mm Hg) | |
| Density at 20 °C (68 °F): | 0.90444 g/cm ³ (7.54755 lbs/gal) | |
| Relative density | Not determined. | |
| · Vapor density | Not determined. | |
| · Evaporation rate | Not determined. | |
| Solubility in / Miscibility with | | |
| Water: | Not miscible or difficult to mix. | |
| Partition coefficient (n-octanol/wate | er): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| Solvent content: | | |
| Organic solvents: | 43.3 % | |
| Water: | 50.7 % | |
| VOC content: | 43.32 % | |
| | 391.8 g/l / 3.27 lb/gal | |
| Solids content: | 0.4 % | |
| Other information | No further relevant information available. | |

10 Stability and reactivity

- *Reactivity* No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

| Oral | LD50 | 229 mg/kg |
|------------|---------|-----------|
| Dermal | LD50 | 693 mg/kg |
| Inhalative | LC50/4h | 6.93 mg/l |

· Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- \cdot on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.

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Trade name: Dinitrophenylhydrazine in Methanol (with HCl)

(Contd. of page 7)

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

| 4 Transport information | | |
|-------------------------|--------|--|
| · UN-Number | | |
| · DOT, IMDG, IATA | UN2924 | |

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| nde name: Dinitrophenylhydrazine in Methanol (with HCl) | |
|---|---|
| | (Contd. of pag |
| UN proper shipping name DOT | Flammable liquids, corrosive, n.o.s. (Methanol, Hydrochlor Acid) |
| IMDG, IATA | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methand Hydrochloric Acid) |
| Transport hazard class(es) | |
| | |
| Class | 3 Flammable liquids |
| Label | 3 Flammable liquids 3, 8 |
| IMDG | |
| Class | 3 Flammable liquids |
| Label | 3/8 |
| Class Label | 3 Flammable liquids 3 (8) |
| Packing group | |
| DOT, ĬMDG, IATA | III |
| Environmental hazards: | Not applicable. |
| Special precautions for user Hazard identification number (Kemler cod EMS Number: Segregation groups Stowage Category Stowage Code | Warning: Flammable liquids de): 338 F-E,S-C (SGG1) Acids B SW2 Clear of living quarters. |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | |
| Transport/Additional information: | |
| DOT | |
| Quantity limitations | On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L |
| | (Contd. on page |

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| Trade name: Dinitrophenylhydrazine | |
|------------------------------------|--|
| in Methanol (with HCl) | |

| | (Contd. of page 9) | |
|--|--|--|
| ·IMDG | | |
| · Limited quantities (LQ) | 1L | |
| · Excepted quantities ($\widetilde{E}Q$) | Code: E2 | |
| | Maximum net quantity per inner packaging: 30 ml | |
| | Maximum net quantity per outer packaging: 500 ml | |
| · UN "Model Regulation": | UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHANOL, HYDROCHLORIC ACID), 3 (8), III | |

15 Regulatory information

| \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture | | | | |
|--|--|--|--|--|
| No further relevant information available. | | | | |
| · Sara | | | | |

| Section 355 | (extremely | hazardous | substances): |
|-------------|------------|-----------|--------------|
|-------------|------------|-----------|--------------|

None of the ingredients is listed.

 \cdot Section 313 (Specific toxic chemical listings):

CAS: 67-56-1 Methanol

· TSCA (Toxic Substances Control Act):

| Hannahana Ain Dallatanta | |
|----------------------------|--------|
| 2,4-Dinitrophenylhydrazine | ACTIVE |
| Hydrochloric Acid | ACTIVE |
| Methanol | ACTIVE |
| Water | ACTIVE |

• Hazardous Air Pollutants CAS: 67-56-1 Methanol

CAS: 7647-01-0 Hydrochloric Acid

· Proposition 65

 \cdot Chemicals known to cause cancer:

None of the ingredients is listed.

 \cdot Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

 \cdot Chemicals known to cause developmental toxicity:

CAS: 67-56-1 Methanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 11)

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Trade name: Dinitrophenylhydrazine in Methanol (with HCl)

(Contd. of page 10) · Hazard pictograms GHS02 GHS05 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol Hydrochloric Acid 2,4-Dinitrophenylhydrazine · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. Causes damage to the central nervous system and the visual organs. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. *Use explosion-proof electrical/ventilating/lighting/equipment.* Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/physician. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

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| · Contact: · Date of preparation / last revision | |
|---|--|
| · Date of preparation / last revision | |
| | |
| Revision 1.0, 08/04/2023: Reviewed SDS for Accuracy STN | |
| Revision 0.0, 06-13-2023: Creation date for SDS. STN | |
| 08/04/2023 | |
| · Abbreviations and acronyms: | |
| IMDG: International Maritime Code for Dangerous Goods | |
| DOT: US Department of Transportation | |
| IATA: International Air Transport Association | |
| EINECS: European Inventory of Existing Commercial Chemical Substances | |
| ELINCS: European List of Notified Chemical Substances | |
| CAS: Chemical Abstracts Service (division of the American Chemical Society) | |
| NFPA: National Fire Protection Association (USA) | |
| HMIS: Hazardous Materials Identification System (USA) | |
| VOC: Volatile Organic Compounds (USA, EU) | |
| LC50: Lethal concentration, 50 percent | |
| LD50: Lethal dose, 50 percent | |
| PBT: Persistent, Bioaccumulative and Toxic | |
| vPvB: very Persistent and very Bioaccumulative | |
| NIOSH: National Institute for Occupational Safety | |
| OSHA: Occupational Safety & Health | |
| TLV: Threshold Limit Value | |
| PEL: Permissible Exposure Limit | |
| REL: Recommended Exposure Limit | |
| BEI: Biological Exposure Limit | |
| Flammable Liquids 2: Flammable liquids – Category 2 | |
| Acute Toxicity - Oral 3: Acute toxicity – Category 3 | |
| Skin Corrosion 1A: Skin corrosion/irritation – Category 1A | |
| Eye Damage 1: Serious eye damage/eye irritation – Category 1 | |
| Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1 | |
| Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 | |
| • * Data compared to the previous version altered. | |