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| Product identifier | |
|---|--|
| Product identifier | |
| Trade name: <u>Sulfur Standard 5.0 ppm w/v</u> in n-Hexane | |
| Article number: ND624 | |
| Details of the supplier of the safety data sheet | |
| Manufacturer/Supplier: | |
| Aqua Solutions, Inc. 6913 Highway 225 | SOLUTIONS |
| DEER PARK, TX 77536 | |
| USA | |
| 800-256-2586 | |
| Information department: Technical Coordinator | |
| Sherman Nelson shermann@aquasolutions.org | |
| Emergency telephone number: | |
| Chemtrec: 800-424-9300 Canutec: 613-996-6666 | |
| | |
| | |
| Hazard(s) identification | |
| Classification of the substance or mixture | |
| | |
| GHS02 Flame | |
| $\mathbf{\vee}$ | |
| Flammable Liquids 2 | H225 Highly flammable liquid and vapor. |
| | |
| \mathbf{A} | |
| GHS08 Health hazard | · · · · · · · · · · · · · · · · · · · |
| | |
| Toxic to Reproduction 2 | H361 Suspected of damaging fertility or the unborn chil |
| Toxic to Reproduction 2 | H361 Suspected of damaging fertility or the unborn chil 2 H373 May cause damage to organs through prolonged |
| Toxic to Reproduction 2 | H361 Suspected of damaging fertility or the unborn chil |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 | H361 Suspected of damaging fertility or the unborn chil 2 H373 May cause damage to organs through prolonged repeated exposure. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 | H361 Suspected of damaging fertility or the unborn chil 2 H373 May cause damage to organs through prolonged repeated exposure. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 | H361 Suspected of damaging fertility or the unborn chil 2 H373 May cause damage to organs through prolonged repeated exposure. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 | H361 Suspected of damaging fertility or the unborn chil 2 H373 May cause damage to organs through prolonged repeated exposure. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 GHS07 | H361 Suspected of damaging fertility or the unborn chil 2 H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Single Exposure 3 Label elements | H361 Suspected of damaging fertility or the unborn chil H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Single Exposure 3 Label elements GHS label elements The product is classified and lab | H361 Suspected of damaging fertility or the unborn chil H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Single Exposure 3 Label elements | H361 Suspected of damaging fertility or the unborn chil H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Single Exposure 3 Label elements GHS label elements The product is classified and lab | H361 Suspected of damaging fertility or the unborn chil H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Single Exposure 3 Label elements GHS label elements The product is classified and lab | H361 Suspected of damaging fertility or the unborn chil H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Single Exposure 3 Label elements GHS label elements The product is classified and lab Hazard pictograms | H361 Suspected of damaging fertility or the unborn chil H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. |
| Toxic to Reproduction 2 Specific Target Organ Toxicity - Repeated Exposure 2 Aspiration Hazard 1 GHS07 Skin Irritation 2 Specific Target Organ Toxicity - Single Exposure 3 Label elements GHS label elements The product is classified and lab | H361 Suspected of damaging fertility or the unborn chil H373 May cause damage to organs through prolonged repeated exposure. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. |

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| | (Contd. of page |
|---|-----------------|
| Hazard-determining components of labeling: | |
| Hexane | |
| Hazard statements | |
| Highly flammable liquid and vapor. | |
| Causes skin irritation. | |
| Suspected of damaging fertility or the unborn child. | |
| May cause drowsiness or dizziness. | |
| May cause damage to organs through prolonged or repeated exposure. | |
| May be fatal if swallowed and enters airways. | |
| Precautionary statements | |
| Obtain special instructions before use. | |
| Do not handle until all safety precautions have been read and understood. | |
| | |
| 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 dust/fume/gas/mist/vapors/spray. | |
| Wash thoroughly after handling. | |
| 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). | |
| Do NOT induce vomiting. | |
| If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show | er |
| IF INHALED: Remove person to fresh air and keep comfortable for breathing. | |
| IF exposed or concerned: Get medical advice/attention. | |
| | |
| Call a poison center/doctor if you feel unwell. | |
| Get medical advice/attention if you feel unwell. | |
| Take off contaminated clothing and wash it before reuse. | |
| If skin irritation occurs: Get medical advice/attention. | |
| 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 regulation | ons. |
| Classification system: | |
| NFPA ratings (scale 0 - 4) | |
| | |
| Health = 1 | |
| Fire = 3 | |
| \mathbf{V} Reactivity = 0 | |
| HMIS-ratings (scale 0 - 4) | |
| | |
| HEALTH 1 Health = 1 | |
| FIRE 3 $Fire = 3$ | |
| REACTIVITY 0 Reactivity = 0 | |
| | |
| Other hazards | |
| Results of PBT and vPvB assessment | |
| PBT: Not applicable. | (Contd on no- |
| | (Contd. on page |

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• vPvB: Not applicable.

(Contd. of page 2)

99.998%

0.002%

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 110-54-3 Hexane

· Table of Nonhazardous Ingredients

CAS: 544-40-1 Butyl sulfide

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.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult 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.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

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(Contd. of page 3)

| • Methods and material for containment and cleaning up: | |
|--|------------|
| Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). | |
| Dispose contaminated material as waste according to section 13. | |
| Ensure adequate ventilation. | |
| · Reference to other sections | |
| See Section 7 for information on safe handling. | |
| See Section 8 for information on personal protection equipment. | |
| See Section 13 for disposal information. | |
| · Protective Action Criteria for Chemicals | |
| · PAC-1: | |
| CAS: 110-54-3 Hexane | 260 ppm |
| · PAC-2: | |
| CAS: 110-54-3 Hexane | 2900* ppm |
| · PAC-3: | |
| CAS: 110-54-3 Hexane | 8600** 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:
- 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.
- 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:

CAS: 110-54-3 Hexane

PEL Long-term value: 1800 mg/m³, 500 ppm

REL Long-term value: 180 mg/m³, 50 ppm

- TLV Long-term value: 50 ppm
 - Skin; BEI

(Contd. on page 5)

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(Contd. of page 4)

| Ingredients with biologica | a unu vuiues. |
|---|---|
| CAS: 110-54-3 Hexane | |
| BEI 0.5 mg/L | |
| LD50 Intraperitonea | l: urine |
| Time: end of shift | |
| | one without hydrolysis |
| Additional information: 7 | <i>The lists that were valid during the creation were used as basis.</i> |
| Exposure controls | |
| Personal protective equip | |
| General protective and hy | |
| Keep away from foodstuffs | · · |
| | iled and contaminated clothing. |
| Wash hands before breaks | |
| Store protective clothing s | |
| Avoid contact with the skin | |
| Avoid contact with the eye | s and skin. |
| Breathing equipment: | |
| | or low pollution use respiratory filter device. In case of intensive or longer exposure u |
| | ice that is independent of circulating air. |
| Protection of hands: | |
| | |
| $\mathbf{Protective glov}$ | es |
| | |
| The glove material has to | be impermeable and resistant to the product/ the substance/ the preparation. |
| | commendation to the glove material can be given for the product/ the preparation/ th |
| chemical mixture. | commendation to the glove material can be given for the product the preparation if |
| | erial on consideration of the penetration times, rates of diffusion and the degradation |
| Material of gloves | shar on consideration of the penetration times, rates of alfusion and the degradation |
| | le gloves does not only depend on the material, but also on further marks of quality ar |
| | to manufacturer. As the product is a preparation of several substances, the resistance |
| | be calculated in advance and has therefore to be checked prior to the application. |
| Penetration time of glove | |
| | time has to be found out by the manufacturer of the protective gloves and has to l |
| observed. | time has to be jound but by the manufacturer of the protective gloves and has to t |
| Eye protection: | |
| | |
| | |
| (Tightly sealed g | zoggles |
| | |
| Body protection: Protectiv | e work clothing |
| •• | |
| Physical and chemica | l properties |
| | |
| Information on basic phy General Information | sical and chemical properties |
| Appearance: | |
| Form: | Liauid |
| | |

- Form:

*

Color:

Liquid Colorless

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| | (Contd. of page : |
|---|---|
| · Odor: | Sweetish |
| · Odor threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Change in condition | |
| Melting point/Melting range: | -95 °C (-139 °F) |
| Boiling point/Boiling range: | 69 °C (156.2 °F) |
| · Flash point: | -26 °C (-14.8 °F) |
| · Flammability (solid, gaseous): | Highly flammable. |
| · Auto igniting: | 240 °C (464 °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: | 1.2 Vol % |
| Upper: | 7.7 Vol % |
| · Vapor pressure at 20 °C (68 °F): | 160 hPa (120 mm Hg) |
| · Vapor pressure at 50 °C (122 °F): | 540 hPa (405 mm Hg) |
| · Density at 20 °C (68 °F): | 0.66001 g/cm³ (5.50778 lbs/gal) |
| · Relative density | Not determined. |
| · Vapor density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with Water at 20 °C (68 °F): | 0.1 g/l |
| · Partition coefficient (n-octanol/water | - |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 100.0 % |
| VOC content: | 100.00 % |
| | 660.0 g/l / 5.51 lb/gal |
| Solids content: | 0.0 % |
| • 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.

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· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

· 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.

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.

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· Uncleaned packagings:

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• *Recommendation: Disposal must be made according to official regulations.*

| TTAT AT J | |
|--|---|
| UN-Number DOT, IMDG, IATA | UN1208 |
| · UN proper shipping name · DOT · IMDG · IATA | Hexanes mixture HEXANES mixture, MARINE POLLUTANT HEXANES mixture |
| Transport hazard class(es) | |
| | |
| Class Label | 3 Flammable liquids 3 |
| · IMDG · Class · Class · Label | 3 Flammable liquids 3 |
| · IATA · Class · Label | 3 Flammable liquids 3 |
| Packing group • DOT, IMDG, IATA | II |
| Environmental hazards: Marine pollutant: | Product contains environmentally hazardous substances: Hexand Symbol (fish and tree) |
| Special precautions for user Hazard identification number (Kemler code). EMS Number: Stowage Category | Warning: Flammable liquids 33 F-E,S-D E |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

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|---|---|
| · Transport/Additional information: | |
| · DOT · Quantity limitations | On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L |
| · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1208 HEXANES MIXTURE, ENVIRONMENTALLY HAZARDOUS, 3, II |

15 Regulatory information

• 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. | |
| · Section 313 (Specific toxic chemical listings): | |
| CAS: 110-54-3 Hexane | |
| · TSCA (Toxic Substances Control Act): | |
| Hexane | ACTIVI |
| Butyl sulfide | ACTIVI |
| · Hazardous Air Pollutants | |
| CAS: 110-54-3 Hexane | |
| · Proposition 65 | |
| · Chemicals known to cause cancer: | |
| None of the ingredients is listed. | |
| · Chemicals known to cause reproductive toxicity for females: | |
| None of the ingredients is listed. | |
| · Chemicals known to cause reproductive toxicity for males: | |
| CAS: 110-54-3 Hexane | |
| · Chemicals known to cause developmental toxicity: | |
| None of the ingredients is listed. | |
| · Carcinogenic categories | |
| · EPA (Environmental Protection Agency) | |
| CAS: 110-54-3 Hexane | I |
| · 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. | |
| | (Contd. on page 1 |

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(Contd. of page 9) • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labeling: Hexane · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eve protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). 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 exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. 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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| | (Contd. of page 10) |
|---|---------------------|
| · Contact: | |
| Date of Preparation / Last Revision: | |
| · Date of preparation / last revision | |
| Revision 1.2, 06/10/2024: Reviewed SDS for accuracy. MH/STN | |
| | |
| Revision 0.0, 05-29-2024: Creation date for SDS. STN | |
| 06/11/2024 / 1.0 | |
| • 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) | |
| 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 | |
| Skin Irritation 2: Skin corrosion/irritation – Category 2 | |
| Toxic to Reproduction 2: Reproductive toxicity – Category 2 | |
| Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 | |
| Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 | |
| Aspiration Hazard 1: Aspiration hazard – Category 1 | |
| • * Data compared to the previous version altered. | |
| | |