1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: CLP Volatiles Standard (1X1 mL)

· Part number: CLP-159-1

· Relevant identified uses of the substance or mixture and uses advised against

  Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:
  Agilent Technologies Manufacturing GmbH & Co. KG
  Hewlett-Packard-Str.8
  76337 Waldbronn
  Germany

· Further information obtainable from:
  Telephone: 0800 603 1000
  pdl-msds_author@agilent.com

· Emergency telephone number: CHEMTREC®: +(44)-870-8200418

2 Hazards identification

· Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

  GHS02 flame

  Flam. Liq. 2        H225    Highly flammable liquid and vapour.

  GHS06 skull and crossbones

  Acute Tox. 3        H331    Toxic if inhaled.

  GHS08 health hazard

  Muta. 1B            H340    May cause genetic defects.
  Carc. 1B            H350    May cause cancer.
  STOT SE 1           H370    Causes damage to organs.

  GHS07

  Ozone 1             H420    Harms public health and the environment by destroying ozone in the upper atmosphere

  Aquatic Chronic 3   H412    Harmful to aquatic life with long lasting effects.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008

  The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)
Trade name: CLP Volatiles Standard (1X1 mL)

- **Hazard pictograms**

  ![labelling](image)
  
  GHS02  GHS06  GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - methanol
  - 1,2-dibromoethane
  - 1,2-dibromo-3-chloropropane

- **Hazard statements**
  - H225 Highly flammable liquid and vapour.
  - H331 Toxic if inhaled.
  - H340 May cause genetic defects.
  - H350 May cause cancer.
  - H370 Causes damage to organs.
  - H412 Harmful to aquatic life with long lasting effects.
  - H420 Harms public health and the environment by destroying ozone in the upper atmosphere

- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read label before use.
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P240 Ground/bond container and receiving equipment.
  - P241 Use explosion-proof electrical/ventilating/lighting equipment.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P260 Do not breathe dust/fume/gas/mist/vapours/spray.
  - P264 Wash thoroughly after handling.
  - P270 Do not eat, drink or smoke when using this product.
  - P271 Use only outdoors or in a well-ventilated area.
  - P273 Avoid release to the environment.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P321 Specific treatment (see on this label).
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
  - P502 Refer to manufacturer/supplier for information on recovery/recycling.

(Contd. on page 3)
Trade name: CLP Volatiles Standard (1X1 mL)

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· Other hazards
· Results of PBT and vPvB assessment

· PBT:
  120-82-1 1,2,4-trichlorobenzene

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EINECS:</th>
<th>Chemical characterisation</th>
<th>Description</th>
<th>Hazard phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>200-659-6</td>
<td>methanol</td>
<td>Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370</td>
<td>96.9664%</td>
</tr>
<tr>
<td>96-12-8</td>
<td>202-479-3</td>
<td>1,2-dibromo-3-chloropropane</td>
<td>Acute Tox. 3, H301; Mut. 1B, H340; Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373; Acute Tox. 4, H312; Aquatic Chronic 3, H412</td>
<td>0.253%</td>
</tr>
<tr>
<td>106-93-4</td>
<td>203-444-5</td>
<td>1,2-dibromoethane</td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 1B, H350; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
<td>0.253%</td>
</tr>
<tr>
<td>95-50-1</td>
<td>202-425-9</td>
<td>1,2-dichlorobenzene</td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
<td>0.253%</td>
</tr>
<tr>
<td>106-46-7</td>
<td>203-400-5</td>
<td>1,4-dichlorobenzene</td>
<td>Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319</td>
<td>0.253%</td>
</tr>
<tr>
<td>76-13-1</td>
<td>200-936-1</td>
<td>1,1,2-trichlorotrifluoroethane</td>
<td>Acute Tox. 2, H300; Ozone 1, H420</td>
<td>0.253%</td>
</tr>
<tr>
<td>120-82-1</td>
<td>204-428-0</td>
<td>1,2,4-trichlorobenzene</td>
<td>PBT</td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315</td>
</tr>
<tr>
<td>110-82-7</td>
<td>203-806-2</td>
<td>cyclohexane</td>
<td>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H336</td>
<td>0.253%</td>
</tr>
<tr>
<td>1634-04-4</td>
<td>216-653-1</td>
<td>tert-butyl methyl ether</td>
<td>Flam. Liq. 2, H225; Acute Tox. 3, H311; Skin Irrit. 2, H315</td>
<td>0.253%</td>
</tr>
</tbody>
</table>

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· Description of first aid measures
· General information:
  Immediately remove any clothing soiled by the product.
  Remove breathing equipment only after contaminated clothing have been completely removed.

(Contd. on page 4)
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.
- **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:** 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 Firefighting measures**

- **Extinguishing media**
  - Suitable extinguishing agents:
  CO2, 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.
- **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 item 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.

**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.
Trade name: CLP Volatiles Standard (1X1 mL)

- **Information about fire - and explosion protection:**
  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 container 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 facilities:** No further data; see item 7.

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<table>
<thead>
<tr>
<th>Material</th>
<th>WEL Short-term value</th>
<th>WEL Long-term value</th>
<th>Carc; Sk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>333 mg/m³, 250 ppm</td>
<td>266 mg/m³, 200 ppm</td>
<td>Sk</td>
</tr>
<tr>
<td>1,2-dibromoethane</td>
<td>3.9 mg/m³, 0.5 ppm</td>
<td>Carc; Sk</td>
<td></td>
</tr>
<tr>
<td>1,2-dichlorobenzene</td>
<td>306 mg/m³, 50 ppm</td>
<td>153 mg/m³, 25 ppm</td>
<td>Sk</td>
</tr>
<tr>
<td>1,4-dichlorobenzene</td>
<td>60 mg/m³, 10 ppm</td>
<td>12 mg/m³, 2 ppm</td>
<td>Sk</td>
</tr>
<tr>
<td>1,2,4-trichlorobenzene</td>
<td>5 ppm</td>
<td>1 ppm</td>
<td>Sk</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>1050 mg/m³, 300 ppm</td>
<td>350 mg/m³, 100 ppm</td>
<td></td>
</tr>
<tr>
<td>tert-butyl methyl ether</td>
<td>367 mg/m³, 100 ppm</td>
<td>183.5 mg/m³, 50 ppm</td>
<td></td>
</tr>
</tbody>
</table>

- **Additional information:** The lists valid during the making were used as basis.
Trade name: CLP Volatiles Standard (1X1 mL)

- Exposure controls
  - Personal protective equipment:
  - General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
    Store protective clothing separately.
  - Respiratory protection:
    When used as intended with Agilent instruments the use of the product under normal laboratory conditions and
    with standard practices does not result in significant airborne exposures and therefore respiratory protection is not
    needed.
    Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved
    device equipment with appropriate organic or acid gas cartridge.
  - Protection of hands:
    Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil
    thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct
    contact of the chemical, butyl rubber gloves are recommended 12-15mil thickness with breakthrough times
    exceeding 4 hrs. Supplier recommendations should be followed.
  - Material of gloves
    For normal use: nitrile rubber, 11-13 mil thickness
    For direct contact with the chemical: butyl rubber, 12-15 mil thickness
  - Penetration time of glove material
    For normal use: nitrile rubber: 1 hour
    For direct contact with the chemical: butyl rubber: > 4 hours
  - Eye protection:
    Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      Form: Fluid
      Colour: Colourless
    - Odour:
      Alcohol-like
    - Odour threshold:
      Not determined.
    - pH-value:
      Not determined.
    - Change in condition
      Melting point/freezing point: -98 °C
      Initial boiling point and boiling range: 64 °C
    - Flash point:
      9 °C
    - Flammability (solid, gas):
      Not applicable.
    - Ignition temperature:
      455 °C
### 10 Stability and reactivity

- **Reactivity**: No further relevant information available.
- **Chemical stability**: No decomposition if used according to specifications.
- **Thermal decomposition / conditions to be avoided**: 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**
    - Toxic if inhaled.
- **LD/LC50 values relevant for classification**
  - **ATE (Acute Toxicity Estimates)**
    - Oral LD50: 8,359 mg/kg
## Trade name: CLP Volatiles Standard (1X1 mL)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Dermal LD50 (mg/kg)</th>
<th>Dermal LD50 (mg/kg)</th>
<th>Oral LD50 (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1 Methanol</td>
<td>91,285</td>
<td>15,800</td>
<td>5,628</td>
</tr>
<tr>
<td>96-12-8 1,2-Dibromo-3-chloropropane</td>
<td>170</td>
<td>1,420</td>
<td>1,400</td>
</tr>
<tr>
<td>106-93-4 1,2-Dibromoethane</td>
<td>108</td>
<td>55</td>
<td>300</td>
</tr>
<tr>
<td>95-50-1 1,2-Dichlorobenzene</td>
<td>500</td>
<td>&gt;10,000</td>
<td>43</td>
</tr>
<tr>
<td>106-46-7 1,4-Dichlorobenzene</td>
<td>&gt;2,000</td>
<td>&gt;2,000</td>
<td>&gt;5.07</td>
</tr>
<tr>
<td>76-13-1 1,1,2-Trichlorotrifluoroethane</td>
<td>756</td>
<td>6,139</td>
<td>&gt;5,000</td>
</tr>
<tr>
<td>120-82-1 1,2,4-Trichlorobenzene</td>
<td>&gt;5,000</td>
<td>&gt;2,000</td>
<td>13.9</td>
</tr>
<tr>
<td>110-82-7 Cyclohexane</td>
<td>4,000</td>
<td>1,000</td>
<td>23,576</td>
</tr>
</tbody>
</table>

### Primary irritant effect:
- **Skin corrosion/irritation**: Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**: Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**: Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**: May cause genetic defects.
- **Carcinogenicity**: May cause cancer.
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- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure
  Causes damage to organs.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability No further relevant information available.
  - Behaviour in environmental systems:
  - Bioaccumulative potential No further relevant information available.
  - Mobility in soil No further relevant information available.
  - Ecotoxic effects:
  - Remark: Harmful to fish
  - Additional ecological information:
  - General notes:
  Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
  Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  Danger to drinking water if even extremely small quantities leak into the ground.
  Harmful to aquatic organisms
  - Results of PBT and vPvB assessment
    - PBT:
      - 120-82-1 1,2,4-trichlorobenzene
    - vPvB: Not applicable.
    - Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- European waste catalogue
  
<table>
<thead>
<tr>
<th>HP</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Flammable</td>
</tr>
<tr>
<td>5</td>
<td>Specific Target Organ Toxicity (STOT)/Aspiration Toxicity</td>
</tr>
<tr>
<td>6</td>
<td>Acute Toxicity</td>
</tr>
<tr>
<td>7</td>
<td>Carcinogenic</td>
</tr>
<tr>
<td>11</td>
<td>Mutagenic</td>
</tr>
<tr>
<td>14</td>
<td>Ecotoxic</td>
</tr>
</tbody>
</table>

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.
## 14 Transport information

- **Not Regulated, De minimus Quantities**
- **UN-Number**
  - ADR, IMDG, IATA: UN1992
- **UN proper shipping name**
  - ADR: 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)
  - IMDG, IATA: FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)
- **Transport hazard class(es)**
  - **ADR**
    - Class: 3 Flammable liquids.
    - Label: 3+6.1
  - **IMDG**
    - Class: 3 Flammable liquids.
    - Label: 3/6.1
  - **IATA**
    - Class: 3 Flammable liquids.
    - Label: 3 (6.1)
- **Packing group**
  - ADR, IMDG, IATA: II
- **Environmental hazards:**
  - Not applicable.
- **Special precautions for user**
  - Warning: Flammable liquids.
  - EMS Number: 336
  - Stowage Category: B
  - Stowage Code: SW2 Clear of living quarters.
- **Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.
Trade name: CLP Volatiles Standard (1X1 mL)

- **Transport/Additional information:**
  - ADR
  - Limited quantities (LQ) 1L
  - Excepted quantities (EQ) Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - Transport category 2
  - Tunnel restriction code D/E
  - IMDG
  - Limited quantities (LQ) 1L
  - Excepted quantities (EQ) Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - UN "Model Regulation": UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S.
    - (METHANOL), 3 (6.1), II

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - Seveso category
    - H2 ACUTE TOXIC
    - P5c FLAMMABLE LIQUIDS
  - Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28, 29, 49, 57, 64, 69

### 16 Other information

- **National regulations:**
  - Additional classification according to Decree on Hazardous Materials, Annex II:
    - Carcinogenic hazardous material group III (dangerous).
- **Information about limitation of use:**
  - Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- **Relevant phrases**
  - H225 Highly flammable liquid and vapour.
Trade name: CLP Volatiles Standard (1X1 mL)

- Department issuing SDS: Document Control / Regulatory
- Contact: regulatory@ultrasci.com
- Abbreviations and acronyms:
  
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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)
  - 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
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Acute Tox. 2: Acute toxicity – Category 2
  - Acute Tox. 3: Acute toxicity – Category 3
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Muta. 1B: Germ cell mutagenicity – Category 1B
  - Carc. 1B: Carcinogenicity – Category 1B
  - Carc. 2: Carcinogenicity – Category 2
  - Repr. 1A: Reproductive toxicity – Category 1A
  - STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  - Asp. Tox. 1: Aspiration hazard – Category 1
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
  - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
  - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
  - Ozone 1: Hazardous to the ozone layer – Category 1

H300  Fatal if swallowed.
H301  Toxic if swallowed.
H302  Harmful if swallowed.
H304  May be fatal if swallowed and enters airways.
H311  Toxic in contact with skin.
H312  Harmful in contact with skin.
H315  Causes skin irritation.
H319  Causes serious eye irritation.
H331  Toxic if inhaled.
H332  Harmful if inhaled.
H335  May cause respiratory irritation.
H336  May cause drowsiness or dizziness.
H340  May cause genetic defects.
H350  May cause cancer.
H351  Suspected of causing cancer.
H360F  May damage fertility.
H370  Causes damage to organs.
H373  May cause damage to organs through prolonged or repeated exposure.
H400  Very toxic to aquatic life.
H410  Very toxic to aquatic life with long lasting effects.
H411  Toxic to aquatic life with long lasting effects.
H412  Harmful to aquatic life with long lasting effects.
H420  Harms public health and the environment by destroying ozone in the upper atmosphere.