

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 25.03.2014

Revision: 25.03.2024

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

- **1.1 Product identifier**
- **Trade name: TXV & Reversing Valve Installation Kit**
- **Article number: 32100**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Coating, Cold metal bonding
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Highside Chemicals, Inc.  
11114 Reichold Road  
Gulfport, MS 39503 USA  
Phone: (228) 896-9220
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

## 2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Acute Tox. 4 H302 Harmful if swallowed.  
 Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2 H319 Causes serious eye irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
methyl acrylate  
Poly(oxy-1,2-ethanediyl), .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-  
mequinol
- **Hazard statements**  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.
- **Precautionary statements**  
P280 Wear protective gloves / eye protection.  
P264 Wash thoroughly after handling.  
P261 Avoid breathing mist/vapours/spray.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P501 Dispose of contents/container in accordance with local/regional/national/international  
regulations.
- **Hazard description:**
- **WHMIS-symbols:**  
D2B - Toxic material causing other toxic effects



- **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 1 Health = \*1  
FIRE 1 Fire = 1  
REACTIVITY 0 Reactivity = 0

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### · HMIS Long Term Health Hazard Substances

































None of the ingredients is listed.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

### · Dangerous components:

|  |  |         |
|--|--|---------|
|  | Poly(oxy-1,2-ethanediyl), .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]-<br> Xi R36/37/38<br> Skin Irrit. 2, H315;  Eye Irrit. 2, H319; STOT SE 3, H335  | 50-100% |
| CAS: 96-33-3<br>EINECS: 202-500-6<br>Index number: 607-034-00-0  | methyl acrylate<br> Xn R20/21/22;  Xi R36/37/38;  Xi R43;  F R11<br> Flam. Liq. 2, H225<br> Acute Tox. 4, H302;  Acute Tox. 4, H312;  Acute Tox. 4, H332;  Skin Irrit. 2, H315;  Eye Irrit. 2, H319;  Skin Sens. 1, H317; STOT SE 3, H335  | 5-15%   |
| CAS: 80-15-9<br>EINECS: 201-254-7<br>Index number: 617-002-00-8  | , -dimethylbenzyl hydroperoxide<br> T R23;  C R34;  Xn R21/22-48/20/22;  O R7;  N R51/53<br> Org. Perox. EF, H242<br> Acute Tox. 3, H331<br> STOT RE 2, H373<br> Skin Corr. 1B, H314<br> Aquatic Chronic 2, H411<br> Acute Tox. 4, H302;  Acute Tox. 4, H312 | ≤ 2,5%  |
| CAS: 150-76-5<br>EINECS: 205-769-8<br>Index number: 604-044-00-7 | mequinol<br> Xn R22;  Xi R36;  Xi R43<br> Acute Tox. 4, H302;  Eye Irrit. 2, H319;  Skin Sens. 1, H317   | ≤ 2,5%  |

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Take affected persons out into the fresh air.
- **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.

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Provide oxygen treatment if affected person has difficulty breathing.

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

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Allergic reactions

Irritant to skin and mucous membranes.

Irritant to eyes.

Breathing difficulty

Dizziness

Nausea

- **Hazards** Danger of impaired breathing.

- **4.3 Indication of any immediate medical attention and special treatment needed**

Treat skin and mucous membrane with antihistamine and corticoid preparations.

If necessary oxygen respiration treatment.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

## 5 Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Carbon dioxide

Fire-extinguishing powder

Foam

Water haze or fog

- **For safety reasons unsuitable extinguishing agents:**

Water with full jet

Water spray

- **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information** Cool endangered receptacles with water fog or haze.

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## 6 Accidental release measures

### · 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

### · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

### · 6.4 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

### · 7.1 Precautions for safe handling

Use only in well ventilated areas.

Prevent formation of aerosols.

### · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

When heated the product forms flammable fumes.

### · 7.2 Conditions for safe storage, including any incompatibilities

#### · Storage:

#### · Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

#### · Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

#### · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

#### · 7.3 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.

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

#### 96-33-3 methyl acrylate

|            |   |
|------------|---|
| IOELV (EU) | Short-term value: 36 mg/m <sup>3</sup> , 10 ppm |
|            | Long-term value: 18 mg/m <sup>3</sup> , 5 ppm   |

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|             |  |
|-------------|--|
| PEL (USA)   | Long-term value: 35 mg/m <sup>3</sup> , 10 ppm<br>Skin               |
| REL (USA)   | Long-term value: 35 mg/m <sup>3</sup> , 10 ppm<br>Skin               |
| TLV (USA)   | Long-term value: 7 mg/m <sup>3</sup> , 2 ppm<br>Skin; (SEN) NIC-DSEN |
| EL (Canada) | Long-term value: 2 ppm<br>Skin; S                                    |
| EV (Canada) | Long-term value: 2 ppm<br>Skin                                       |

**80-15-9 , -dimethylbenzyl hydroperoxide**

|            |  |
|------------|--|
| WEEL (USA) | Long-term value: 6 mg/m <sup>3</sup> , 1 ppm<br>Skin |
|------------|--|

**150-76-5 mequinol**

|             |                                      |
|-------------|--------------------------------------|
| REL (USA)   | Long-term value: 5 mg/m <sup>3</sup> |
| TLV (USA)   | Long-term value: 5 mg/m <sup>3</sup> |
| EL (Canada) | Long-term value: 5 mg/m <sup>3</sup> |
| EV (Canada) | Long-term value: 5 mg/m <sup>3</sup> |

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

• **8.2 Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Clean skin thoroughly immediately after handling the product.

• **Respiratory protection:**

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

• **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

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- **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.

- **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR

Nitrile rubber, NBR

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

## 9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Liquid

**Colour:** Violet

- **Odour:** Sweetish

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

**Melting point/Melting range:** Not Determined.

**Boiling point/Boiling range:** Undetermined.

- **Flash point:** >392 °F / >200 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Auto/Self-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

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- **Explosion limits:**
  - Lower:** 2,4 Vol %
  - Upper:** 18,6 Vol %
- **Vapour pressure at 20 °C:** 89 hPa
- **Density at 20 °C:** 1,05-1,10 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

## 10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with catalysts, oxidizing agents and strong alkali.  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with certain metals.
- **10.4 Conditions to avoid**  
Store away from oxidizing agents.  
Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Ammonia  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)  
Hydrocarbons

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## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

### 96-33-3 methyl acrylate

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 277 mg/kg (rat)     |
| Dermal | LD50 | 1243 mg/kg (rabbit) |

### 80-15-9 , -dimethylbenzyl hydroperoxide

|            |         |                 |
|------------|---------|-----------------|
| Oral       | LD50    | 382 mg/kg (rat) |
| Dermal     | LD50    | 500 mg/kg (rat) |
| Inhalative | LC50/4h | 220 mg/l (rat)  |

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant  
Danger through skin adsorption.  
Toxic and/or corrosive effects may be delayed up to 24 hours.
- **Acute effects (acute toxicity, irritation and corrosivity):** Danger through skin adsorption.
- **Sensitisation:** Sensitization possible by skin contact.
- **Repeated dose toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

## 12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** The product contains materials that are harmful to the environment.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential**  
Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**  
Due to mechanical actions of the product (e.g. agglutinations) damages may occur.  
The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.
- **Additional ecological information:**
- **General notes:**  
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.  
Avoid transfer into the environment.  
This statement was deduced from the properties of the single components.

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

## 13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **14.1 UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **14.2 UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated
- **14.3 Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Not Regulated
- **14.4 Packing group**
- **DOT, ADR, IMDG, IATA** Not Regulated
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

## 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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· **Section 313 (Specific toxic chemical listings):**

|         |                                 |
|---------|---------------------------------|
| 96-33-3 | methyl acrylate                 |
| 80-15-9 | , -dimethylbenzyl hydroperoxide |

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **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:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

|         |                 |   |
|---------|-----------------|---|
| 96-33-3 | methyl acrylate | D |
|---------|-----------------|---|

· **IARC (International Agency for Research on Cancer)**

|         |                 |   |
|---------|-----------------|---|
| 96-33-3 | methyl acrylate | 3 |
|---------|-----------------|---|

· **TLV (Threshold Limit Value established by ACGIH)**

|         |                 |    |
|---------|-----------------|----|
| 96-33-3 | methyl acrylate | A4 |
|---------|-----------------|----|

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

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canada**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

|          |                                 |
|----------|---------------------------------|
| 96-33-3  | methyl acrylate                 |
| 80-15-9  | , -dimethylbenzyl hydroperoxide |
| 150-76-5 | mequinol                        |

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

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· **15.2 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.

### · Relevant phrases

- |           |  |
|-----------|--|
| H225      | Highly flammable liquid and vapour.  |
| H242      | Heating may cause a fire.  |
| H302      | Harmful if swallowed.  |
| H312      | Harmful in contact with skin.  |
| H314      | Causes severe skin burns and eye damage.   |
| H315      | Causes skin irritation.  |
| H317      | May cause an allergic skin reaction.   |
| H319      | Causes serious eye irritation.   |
| H331      | Toxic if inhaled.  |
| H332      | Harmful if inhaled.  |
| H335      | May cause respiratory irritation.  |
| H373      | May cause damage to organs through prolonged or repeated exposure.                                     |
| H411      | Toxic to aquatic life with long lasting effects.   |
| .....     |  |
| R11       | Highly flammable.  |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed.  |
| R21/22    | Harmful in contact with skin and if swallowed.   |
| R22       | Harmful if swallowed.  |
| R23       | Toxic by inhalation.   |
| R34       | Causes burns.  |
| R36       | Irritating to eyes.  |
| R36/37/38 | Irritating to eyes, respiratory system and skin.   |
| R43       | May cause sensitisation by skin contact.   |
| R48/20/22 | Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. |
| R51/53    | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.            |
| R7        | May cause fire.  |

### · 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  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 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)  
 WHMIS: Workplace Hazardous Materials Information System (Canada)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Org. Perox. EF: Organic Peroxides, Types E, F  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Acute Tox. 3: Acute toxicity, Hazard Category 3  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

**Sources**

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