# NAPA Extended Life Concentrate Antifreeze & Coolant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>NAPA Extended Life Concentrate Antifreeze &amp; Coolant</td>
</tr>
</tbody>
</table>

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Antifreeze & Coolant

### 1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC  
4065 Commercial Ave, Northbrook, IL 60062 - USA  
T (847) 559-2000  
www.oldworldind.com

### 1.4. Emergency telephone number

Emergency number: (800) 424-9300; (703) 527 3887 (International)  
Chemtrec

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

- Acute Tox. 4 (Oral) H302
- Repr. 2 H361
- STOT RE 2 H373

Full text of H-phrases: see section 16

### 2.2. Label elements

**GHS-US labelling**

- Hazard pictograms (GHS-US):
  - GHS07
  - GHS08

- Signal word (GHS-US): Warning

- Hazard statements (GHS-US):
  - H302 - Harmful if swallowed
  - H361 - Suspected of damaging fertility or the unborn child
  - H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)

- Precautionary statements (GHS-US):
  - P201 - Obtain special instructions before use
  - P202 - Do not handle until all safety precautions have been read and understood
  - P260 - Do not breathe mist, spray, vapors
  - P264 - Wash affected areas thoroughly after handling
  - P270 - Do not eat, drink or smoke when using this product
  - P280 - Wear personal protective equipment as required
  - P301+P310 - If swallowed: Immediately call doctor/physician or poison center
  - P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
  - P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
  - P308+P313 - If exposed or concerned: Get medical advice/attention
  - P405 - Store locked up
  - P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

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04/14/2015 EN (English)
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SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% by wt</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene glycol</td>
<td>(CAS No) 107-21-1</td>
<td>90 - 97</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>diethylene glycol</td>
<td>(CAS No) 111-46-6</td>
<td>&lt; 5</td>
<td>Acute Tox. 4 (Oral), H302 STOT RE 2, H373</td>
</tr>
<tr>
<td>water</td>
<td>(CAS No) 7732-18-5</td>
<td>&lt; 4</td>
<td>Not classified</td>
</tr>
<tr>
<td>potassium 2-ethylhexanoate</td>
<td>(CAS No) 3164-85-0</td>
<td>&lt; 3</td>
<td>Repr. 2, H361</td>
</tr>
<tr>
<td>denatonium benzoate</td>
<td>(CAS No) 3734-33-6</td>
<td>30 - 50 ppm</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

First-aid measures after skin contact : Remove contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately with plenty of water (for at least 15 minutes). Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. If eye irritation persists: Rinse immediately with plenty of water. Get medical advice/attention.

First-aid measures after ingestion : Obtain emergency medical attention. Rinse mouth. If the person is fully conscious, make him/her drink two glasses of water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Call a POISON CENTER-doctor/physician if you feel unwell. If medical advice is delayed, and if the person has swallowed a moderate volume of material (a few ounces), then give three to four ounces of hard liquor, such as whiskey. For children, give proportionally less liquor, according to weight.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes damage to organs (kidneys) Oral. Suspected of damaging fertility or the unborn child.
Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye damage.
Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

4.3. Indication of any immediate medical attention and special treatment needed

A more effective intravenous antidote for physician uses is 4-methylpyrazole, a potent inhibitor of alcohol dehydrogenases, which effectively blocks the formation of toxic metabolites of ethylene glycol. It has been used to decrease the metabolic consequences of ethylene glycol poisoning before metabolic acidosis coma, seizures, and renal failure have occurred.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream. May spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

04/14/2015 EN (English) 2/9
Special protective equipment for fire fighters: Wear positive pressure self-contained breathing apparatus (SCBA). Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection. Refer to section 8.2.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures: Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Heat sources. Keep container closed when not in use. Product may become solid at temperatures below -18 °C (0 °F). Do not cut, drill, weld, use a blowtorch on, etc. containers even when empty. Do not store near food, foodstuffs, drugs or potable water supplies.
Incompatible products: Keep away from strong acids, strong bases and oxidizing agents.
Incompatible materials: Sources of ignition.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| ethylene glycol (107-21-1) |  
|---------------------------|------------------|
| USA ACGIH | ACGIH Ceiling (mg/m³) | 100.00 mg/m³ |
| USA ACGIH | Remark (ACGIH) | Upper Respiratory Tract (URT) & Eye irritant |

8.2. Exposure controls
Personal protective equipment: Avoid all unnecessary exposure. Gloves. Safety glasses.

Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or safety glasses.
Respiratory protection: If exposed to levels above exposure limits wear appropriate respiratory protection.
Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Liquid
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Color : Yellow; Green
Odor : Mild
Odor threshold : No data available
pH 50% water solution : 8
Relative evaporation rate (butylacetate=1) : Nil
Freezing point : -18 °C (0 °F)
Boiling point : 158 °C (317 °F)
Flash point : 116 °C (241 °F) [100% Ethylene Glycol] ASTM D56
Auto-ignition temperature : 400 °C (752 °F) [100% Ethylene Glycol] Literature
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : < 0.1 @ 20 °C
Relative vapor density at 20 °C : No data available
Specific Gravity : 1.12
Density : 1.12 g/l (9.3 lbs/gal)
Solubility : Water: Complete
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not applicable.
Oxidizing properties : Not applicable.
Explosive limits : 3.2 - 15.3 vol %

9.2. Other information
VOC content : 0.00 %

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known under normal conditions of use.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Extremely high or low temperatures. Keep away from any flames or sparking source.

10.5. Incompatible materials
Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Oral: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Compound</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>denatonium benzoate (3734-33-6)</td>
<td>LD50 oral rat</td>
<td>584 mg/kg (Rat)</td>
</tr>
<tr>
<td></td>
<td>LD50 dermal rabbit</td>
<td>&gt; 2,000 mg/kg (Rabbit)</td>
</tr>
<tr>
<td></td>
<td>ATE US (oral)</td>
<td>584 mg/kg bodyweight</td>
</tr>
<tr>
<td>ethylene glycol (107-21-1)</td>
<td>LD50 oral rat</td>
<td>&gt; 5,000 mg/kg (Rat)</td>
</tr>
<tr>
<td></td>
<td>ATE US (oral)</td>
<td>500 mg/kg bodyweight</td>
</tr>
</tbody>
</table>
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**diethylene glycol (111-46-6)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>12,565 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>11,890 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>500 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>11,890 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation:** Not classified

**Serious eye damage/irritation:** Not classified

**Respiratory or skin sensitisation:** Not classified

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive toxicity:** Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity (single exposure):** Not classified

**Specific target organ toxicity (repeated exposure):** May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

**Aspiration hazard:** Not classified

**Potential adverse human health effects and symptoms:** Based on available data, the classification criteria are not met. Harmful if swallowed.

**Symptoms/injuries after skin contact:** Causes skin irritation.

**Symptoms/injuries after eye contact:** Causes serious eye damage.

**Symptoms/injuries after ingestion:** Swallowing a small quantity of this material will result in serious health hazard. The lethal dose in humans is estimated to be 100 mL (3 oz).

**SECTION 12: Ecological information**

**12.1. Toxicity**

**denatonium benzoate (3734-33-6)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 1,000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>13 mg/l (48 h; Daphnia magna)</td>
</tr>
</tbody>
</table>

**ethylene glycol (107-21-1)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>53,000 mg/l (96 h; Pimephales promelas; Static system)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 10,000 mg/l (24 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>40,761 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 10,000 mg/l (168 h; Scenedesmus quadricauda)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>2,000 mg/l (192 h; Microcystis aeruginosa)</td>
</tr>
</tbody>
</table>

**diethylene glycol (111-46-6)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 5,000 ppm (24 h; Carassius auratus)</td>
</tr>
<tr>
<td>LC50 other aquatic organisms 1</td>
<td>1,174 mg/l (Xenopus laevis)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 10,000 mg/l (24 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>61,072 ppm (168 h; Poecilia reticulata)</td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>&gt; 32,000 mg/l (96 h; Gambusia affinis)</td>
</tr>
<tr>
<td>TLM other aquatic organisms 1</td>
<td>&gt; 1,000 ppm (96 h)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>1,174 mg/l (72 h; Xenopus laevis; Toxicity test)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 2</td>
<td>10,745 mg/l (16 h; Protozoa; Toxicity test)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>2,700 mg/l (168 h; Scenedesmus quadricauda)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>100 mg/l (Selenastrum capricornutum)</td>
</tr>
</tbody>
</table>

**12.2. Persistence and degradability**

**denatonium benzoate (3734-33-6)**

**Persistence and degradability**

Biodegradability in water: no data available. No (test) data on mobility of the substance available.

**ethylene glycol (107-21-1)**

**Persistence and degradability**

Readily biodegradable in water. Biodegradable in the soil.

**Biochemical oxygen demand (BOD)**

0.47 g O₂/g substance

**Chemical oxygen demand (COD)**

1.24 g O₂/g substance

**ThOD**

1.29 g O₂/g substance

**BOD (% of ThOD)**

0.36 % ThOD
diethylene glycol (111-46-6)
Biochemical oxygen demand (BOD): 0.02 g O\textsubscript{2}/g substance
Chemical oxygen demand (COD): 1.51 g O\textsubscript{2}/g substance
ThOD: 1.51 g O\textsubscript{2}/g substance
BOD (% of ThOD): 0.015 % ThOD

12.3. Bioaccumulative potential
denatonium benzoate (3734-33-6)
Log Pow: 1.78 (Estimated value)
Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).
ethylene glycol (107-21-1)
BCF fish 1: 10 (72 h; Leuciscus idus)
BCF other aquatic organisms 1: 0.21 - 0.6 (Procambarus sp.; Chronic)
BCF other aquatic organisms 2: 190 (24 h; Algae)
Log Pow: -1.34 (Experimental value)
Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).
diethylene glycol (111-46-6)
Log Pow: -1.98
Bioaccumulative potential: Bioaccumulation: not applicable.

12.4. Mobility in soil
ethylene glycol (107-21-1)
Surface tension: 0.048 N/m (20 °C / 68 °F)
diethylene glycol (111-46-6)
Surface tension: 0.0485 N/m

12.5. Other adverse effects
Effect on ozone layer: No known effect on the ozone layer
Effect on global warming: No known ecological damage caused by this product.
Effect on global warming: No additional information available
Other information: Avoid release to the environment.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Waste disposal recommendations: Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information
In accordance with DOT
Transport document description: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
UN-No.(DOT): 3082
DOT NA no.: UN3082
Proper Shipping Name (DOT): Environmentally hazardous substances, liquid, n.o.s.
Department of Transportation (DOT) Hazard Classes: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT): 9 - Class 9 (Miscellaneous dangerous materials)

DOT Symbols: G - Identifies PSN requiring a technical name
Packing group (DOT): III - Minor Danger
DOT Packaging Exceptions (49 CFR 173.xxx): 155
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| DOT Packaging Non Bulk (49 CFR 173.xxx) | 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | 241 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | No limit |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | No limit |
| DOT Vessel Stowage Location | A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel. |
| Other information | Non Bulk: Not regulated by the US D.O.T. (in quantities under 5,000 lbs in any one inner package). |

### ADR

No additional information available

### Transport by sea

**Proper Shipping Name (IMDG)**

Not regulated by IMDG (in quantities under 5,000 lbs in any one inner package)

### Air transport

**Proper Shipping Name (IATA)**

Not regulated by IATA (in quantities under 5,000 lbs in any one inner package)

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**NAPA Extended Life Concentrate Antifreeze & Coolant**

<table>
<thead>
<tr>
<th>EPA TSCA Regulatory Flag</th>
<th>Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>denatonium benzoate (3734-33-6)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>ethylene glycol (107-21-1)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Listed on United States SARA Section 313</td>
<td></td>
</tr>
<tr>
<td>RQ (Reportable quantity, section 304 of EPA's List of Lists)</td>
<td>5000 lb(s)</td>
</tr>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td>Immediate (acute) health hazard, Delayed (chronic) health hazard</td>
</tr>
<tr>
<td>Ethylene glycol is subject to Tier I and/or Tier II annual inventory reporting.</td>
<td></td>
</tr>
<tr>
<td>SARA Section 313 - Emission Reporting</td>
<td>Ethylene glycol is subject to Form R Reporting requirements.</td>
</tr>
<tr>
<td><strong>diethylene glycol (111-46-6)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td><strong>potassium 2-ethylhexanoate (3164-85-0)</strong></td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

#### 15.2. International regulations

**CANADA**

**NAPA Extended Life Concentrate Antifreeze & Coolant**

| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

### WHMIS Classification

- Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

### EU-Regulations

No additional information available
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Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

15.2.2. National regulations

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL (Canada)</td>
<td>The intentional ingredients of this product are listed.</td>
</tr>
<tr>
<td>ECL (South Korea)</td>
<td>The intentional ingredients of this product are listed.</td>
</tr>
<tr>
<td>EINECS (Europe)</td>
<td>The intentional ingredients of this product are listed.</td>
</tr>
<tr>
<td>ENCS (Japan)</td>
<td>The intentional ingredients of this product are listed.</td>
</tr>
</tbody>
</table>

15.3. US State regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene glycol (107-21-1)</td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td>diethylene glycol (111-46-6)</td>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>Reproductive toxicity, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2 - Moderate Hazard - Temporary or minor injury may occur</td>
</tr>
<tr>
<td>Flammability</td>
<td>1 - Slight Hazard</td>
</tr>
<tr>
<td>Physical</td>
<td>0 - Minimal Hazard</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
</tr>
</tbody>
</table>

SDS GHS US (GHS HazCom 2012) OWI

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04/14/2015 EN (English)