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

1.1 Product identifier
- Trade name: Eco-Mastic
  - Article number: 55-51

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 compound/ Surface coating/ paint

1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:
  Mon-Eco Industries, Inc.
  5 Joanna Ct.
  East Brunswick, NJ 08816
  Phone: 732-257-7942

1.4 Emergency telephone number:
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.
Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

Health hazard
Carc. 1A H350 May cause cancer.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC
T; Toxic
R45: May cause cancer.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

(Contd. on page 2)
Trade name: Eco-Mastic

- **Additional information:**
  There are no other hazards not otherwise classified that have been identified.
  0 percent of the mixture consists of component(s) of unknown toxicity

---

- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
    The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).
    The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**
    - GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - titanium dioxide
  - Attapulgite (Palygorskite)
  - Quartz (SiO2)

- **Hazard statements**
  The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.
  H350 May cause cancer.
  H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**
  The following Precautionary Statements are applicable only to the OSHA GHS regulations and not the specific CLP regulation: P280.
  The following Precautionary Statements are applicable only to the EU CLP regulations and not the OSHA GHS regulations: P273, P281.
  P280 Wear protective gloves/protective clothing/eye protection.
  P281 Use personal protective equipment as required.
  P273 Avoid release to the environment.
  P201 Obtain special instructions before use.
  P202 Do not handle until all safety precautions have been read and understood.
  P308+P313 IF exposed or concerned: Get medical advice/attention.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**
  Restricted to professional users.

- **Hazard description:**

- **WHMIS-symbols:**
  As of 11 February 2015, the current WHMIS system is being replaced by the GHS system. This is the classification under the older system.
  D2A - Very toxic material causing other toxic effects

---

(Contd. on page 3)
Trade name: Eco-Mastic

- **NFPA ratings (scale 0 - 4)**
  - Health = 1
  - Fire = 0
  - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - Health = *1
  - Fire = 0
  - Reactivity = 0
  
  * - Indicates a long term health hazard from repeated or prolonged exposures.

<table>
<thead>
<tr>
<th>HMIS Long Term Health Hazard Substances</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7 titanium dioxide</td>
<td></td>
</tr>
<tr>
<td>14808-60-7 Quartz (SiO2)</td>
<td></td>
</tr>
</tbody>
</table>

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

---

### SECTION 3: Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 13463-67-7</td>
<td>titanium dioxide</td>
</tr>
<tr>
<td>EINECS: 236-675-5</td>
<td></td>
</tr>
<tr>
<td>CAS: 12174-11-7</td>
<td>Attapulgite (Palygorskite)</td>
</tr>
<tr>
<td>EC number: 601-805-5</td>
<td>Xn R40</td>
</tr>
<tr>
<td></td>
<td>Carc. 2, H351</td>
</tr>
<tr>
<td>CAS: 9036-19-5</td>
<td>Polyethylene glycol octylphenyl ether</td>
</tr>
<tr>
<td></td>
<td>Xn R22; Xi R41</td>
</tr>
<tr>
<td></td>
<td>R52/53</td>
</tr>
<tr>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td>CAS: 57-55-6</td>
<td>Propylene Glycol</td>
</tr>
<tr>
<td>EINECS: 200-338-0</td>
<td>substance with a Community workplace exposure limit</td>
</tr>
<tr>
<td>CAS: 9016-45-9</td>
<td>4-nonylphenyl-polyethylene glycol</td>
</tr>
<tr>
<td>NLP: 500-024-6</td>
<td>Xi R36/38; N R51/53</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319</td>
</tr>
</tbody>
</table>

(Contd. on page 4)
Trade name: Eco-Mastic

| CAS: 14808-60-7 | Quartz (SiO2) | < 1% |
| CAS: 64742-46-7 | Distillates (petroleum), hydrotreated middle | Carc. 1A, H350 |
| CAS: 64742-52-5 | Distillates (petroleum), hydrotreated heavy naphthenic | Carc. 1B, H350 |
| CAS: 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic | Carc. 1B, H350 |
| CAS: 64742-55-8 | Distillates (petroleum), hydrotreated light paraffinic | Carc. 1B, H350 |
| CAS: 64742-65-0 | Distillates (petroleum), solvent-dewaxed heavy paraffinic | Carc. 1B, H350 |

SVHC
9016-45-9 4-nonylphenyl-polyethylene glycol

Additional information:
For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.
For the wording of the listed risk phrases refer to section 16.

Notable Trace Components (≤ 0.1% w/w)
| CAS: 1897-45-6 | chlorothalonil (ISO) |
| CAS: 217-588-1 | T+ R26; Xn R40; Xi R37-41; Xi R43; N R50/53 |
| CAS: 608-014-00-4 | Acute Tox. 2; H330 |
| T+ R26; Xn R40; Xi R37-41; Xi R43; N R50/53 |
| Carc. Cat. 3 |
| Carc. 2, H351 |
| Eye Dam. 1, H318 |
| Aquatic Acute 1, H400; Aquatic Chronic 1, H410 |
| Skin Sens. 1, H317; STOT SE 3, H335 |

SECTION 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.
Provide oxygen treatment if affected person has difficulty breathing.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation is experienced, consult a doctor.
Trade name: Eco-Mastic

- **After eye contact:**
  Remove contact lenses if worn.
  Rinse opened eye for several minutes under running water. If symptoms persist, 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
  Dizziness
  Slight irritant effect on skin and mucous membranes.
  Slight irritant effect on eyes.
  Gastric or intestinal disorders when ingested.
  Nausea in case of ingestion.
- **Hazard**
  May cause cancer.
  May cause respiratory irritation.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - Suitable extinguishing agents:
    - Foam
    - Fire-extinguishing powder
    - Gaseous extinguishing agents
    - Carbon dioxide
  - For safety reasons unsuitable extinguishing agents: None.
- **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 No further relevant information available.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation
  - Particular danger of slipping on leaked/spilled product.
  - Wear protective equipment. Keep unprotected persons away.
  - For large spills, evacuate area and contact authorities to perform cleanup.
- **6.2 Environmental precautions:**
  - Do not allow to enter sewers/ surface or ground water.
  - Inform respective authorities in case of seepage into water course or sewage system.
Trade name: Eco-Mastic

6.3 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 item 13.
Send for recovery or disposal in suitable receptacles.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Prevent formation of aerosols.
Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas.

Information about fire - and explosion protection: No special measures required.

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 oxidising and acidic materials.

Further information about storage conditions: Keep container tightly sealed.

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

SECTION 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:

<table>
<thead>
<tr>
<th>13463-67-7 titanium dioxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 15* mg/m³</td>
</tr>
<tr>
<td>*total dust</td>
</tr>
<tr>
<td>See Pocket Guide App. A</td>
</tr>
<tr>
<td>Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>withdrawn from NIC</td>
</tr>
<tr>
<td>Long-term value: 10* 3** mg/m³</td>
</tr>
<tr>
<td>*total dust;**respirable fraction; IARC 2B</td>
</tr>
<tr>
<td>Long-term value: 10 mg/m³</td>
</tr>
<tr>
<td>total dust</td>
</tr>
</tbody>
</table>

(Contd. on page 7)
### Safety Data Sheet

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

**Trade name:** Eco-Mastic

<table>
<thead>
<tr>
<th>57-55-6 Propylene Glycol</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEEL (USA)</strong></td>
</tr>
<tr>
<td><strong>EV (Canada)</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14808-60-7 Quartz (SiO2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL (USA)</strong></td>
</tr>
<tr>
<td><strong>REL (USA)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>TLV (USA)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>EL (Canada)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>EV (Canada)</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

- **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.
    Store protective clothing separately.
    Do not inhale gases / fumes / aerosols.
  - **Respiratory protection:**
    Use suitable respiratory protective device in case of insufficient ventilation.
    For spills, respiratory protection may be advisable.
    NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.
  - **Protection of hands:**
    ![Protective gloves]
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - **Eye protection:**
    ![Safety glasses]
    **Body protection:** Protective work clothing
    **Limitation and supervision of exposure into the environment**
    No further relevant information available.

(Contd. on page 8)
SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Liquid
      - Colour: Grey
      - Odour: Mild
      - Odour threshold: Not determined.
    - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Not Determined.
    - Boiling point/Boiling range: 100 °C (212 °F)
  - Flash point: Not applicable.
  - 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.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  - Vapour pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)
  - Density at 20 °C (68 °F): 1,34 g/cm³ (11,182 lbs/gal)
  - Relative density: Not determined.
  - Vapour density at 20 °C (68 °F): > 1 g/cm³ (> 8,345 lbs/gal) (Air =1)
  - Evaporation rate at 20 °C (68 °F): ~1 (Water= 1)
  - 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.
SECTION 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
  Toxic fumes may be released if heated above the decomposition point.
  Reacts with strong acids and oxidising agents.
- 10.4 Conditions to avoid
  Keep away from heat and direct sunlight.
  Store away from oxidising agents.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
  Carbon monoxide and carbon dioxide
  Nitrogen oxides (NOx)
  Hydrogen chloride (HCl)

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values relevant for classification: None.
  - Primary irritant effect:
    - on the skin: Slight irritant effect on skin and mucous membranes.
    - on the eye: Slight irritant effect on eyes.
  - Sensitisation: No sensitising effects known.
  - Subacute to chronic toxicity: No further relevant information available.
  - 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:
    May cause cancer.
    - Acute effects (acute toxicity, irritation and corrosivity): Vapours have narcotic effect.
    - Repeated dose toxicity: May cause damage to organs through prolonged or repeated exposure.
    - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
      Carc. 1A

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: The material is harmful to the environment.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
  - Remark: Harmful to fish
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date 29.05.2015
Revision: 29.05.2015

Trade name: Eco-Mastic

- 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
    Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
  - 12.5 Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - 12.6 Other adverse effects No further relevant information available.

SECTION 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 burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
    The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
  - Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 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 Not Regulated
- Class
- 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": -
### SECTION 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 are listed.

#### Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.

#### TSCA (Toxic Substances Control Act):
All ingredients are listed.

- **Proposition 65 (California):**
- **Chemicals known to cause cancer:**
  Reference to Titanium Dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.
  Reference to Attagulgite is based on unbound respirable particles and is not generally applicable to product as supplied.
  Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.
  Present in trace quantities: chlorothalonil, carbon black.

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
</tr>
<tr>
<td>12174-11-7</td>
<td>Attagulgite (Palygorskite)</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
</tr>
<tr>
<td>1897-45-6</td>
<td>chlorothalonil (ISO)</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
</tr>
</tbody>
</table>

#### Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**
  Present in trace quantities.

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
</tr>
</tbody>
</table>

#### Carcinogenic Categories

- **EPA (Environmental Protection Agency)**
  None of the ingredients are listed.

- **IARC (International Agency for Research on Cancer)**
<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>2B</td>
</tr>
<tr>
<td>12174-11-7</td>
<td>Attagulgite (Palygorskite)</td>
<td>2B</td>
</tr>
<tr>
<td>9002-88-4</td>
<td>Linear Low Density Polyethylene</td>
<td>3</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
<td>1</td>
</tr>
</tbody>
</table>

(Contd. on page 12)
Trade name: Eco-Mastic

· TLV (Threshold Limit Value established by ACGIH)
  13463-67-7  titanium dioxide  A4
  14808-60-7  Quartz (SiO2)  A2

· NIOSH-Ca (National Institute for Occupational Safety and Health)
  13463-67-7  titanium dioxide
  14808-60-7  Quartz (SiO2)

· Canada
  · Canadian Domestic Substances List (DSL)
    All ingredients are listed.
  · Canadian Ingredient Disclosure list (limit 0.1%)
    None of the ingredients are listed.
  · Canadian Ingredient Disclosure list (limit 1%)
    9036-19-5  Polyethylene glycol octylphenyl ether
    57-55-6  Propylene Glycol

· 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.

· Other regulations, limitations and prohibitive regulations
  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· Substances of very high concern (SVHC) according to REACH, Article 57
  9016-45-9  4-nonylphenyl-polyethylene glycol

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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
  H302  Harmful if swallowed.
  H315  Causes skin irritation.
  H318  Causes serious eye damage.
  H319  Causes serious eye irritation.
  H350  May cause cancer.
  H351  Suspected of causing cancer.
  H411  Toxic to aquatic life with long lasting effects.
  R22  Harmful if swallowed.
  R36/38  Irritating to eyes and skin.
  R40  Limited evidence of a carcinogenic effect.
  R41  Risk of serious damage to eyes.
  R48  Danger of serious damage to health by prolonged exposure.

(Contd. on page 11)
### Safety Data Sheet

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

**Printing date 29.05.2015**

**Revision: 29.05.2015**

<table>
<thead>
<tr>
<th>Trade name: Eco-Mastic</th>
</tr>
</thead>
</table>

| R49 | May cause cancer by inhalation. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

**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 Harmonised 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)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Carc. 1A: Carcinogenicity, Hazard Category 1A
- Carc. 1B: Carcinogenicity, Hazard Category 1B
- Carc. 2: Carcinogenicity, Hazard Category 2
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

**Sources**

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