1. **Identification**

1.1. **Product identifier**

   **Trade name**
   Protectosil® 40 H

1.2. **Recommended use of the chemical and restrictions on use**

   **Relevant applications identified**
   For industrial use

   **Function**
   Waterproofing agent

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

   **Company**
   Evonik Corporation
   299 Jefferson Road
   Parsippany, NJ 07054-0677
   USA

   **Telephone**
   973-929-8000

   **Telex**
   973-929-8040

   **Email address**
   Product-Regulatory-Services@evonik.com

1.4. **24 HOUR EMERGENCY TELEPHONE NUMBERS:**

   **CHEMTREC - US & CANADA:**
   800-424-9300

   **CHEMTREC MEXICO:**
   01-800-681-9531

   **CHEMTREC INTERNATIONAL:**
   +1 703-527-3887 *(collect calls accepted)*

   **Product Regulatory Services**
   : 973-929-8060

2. **Hazards identification**

2.1. **Classification of the substance or mixture**

   Classification according to Regulation 29CFR 1910.1200

   **Flammable liquids**
   Category 2
   H225

   **Skin irritation**
   Category 2
   H315

   **Acute aquatic toxicity**
   Category 3
   H402

2.2. **Label elements**

   **Statutory basis**
   Classification according to Regulation 29CFR 1910.1200

   **Symbol(s)**
   [Image of symbols]
SAFETY DATA SHEET
Protectisol® 40 H

Signal word          Danger
Hazard statement
H225 - Highly flammable liquid and vapor.
H315 - Causes skin irritation.
H402 - Harmful to aquatic life.
Precautionary statement:
Prevention
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 - Keep container tightly closed.
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.
P264 - Wash skin thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves / eye protection / face protection.
Precautionary statement:
Reaction
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332 + P313 - If skin irritation occurs: Get medical advice/ attention.
P362 - Take off contaminated clothing and wash before reuse.
P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
Precautionary statement:
Storage
P403 + P235 - Store in a well-ventilated place. Keep cool.
Precautionary statement:
Disposal
P501 - Dispose of contents / container to an approved waste disposal plant.

2.3. Other hazards
None known.

3. Composition / information on ingredients

| • Ethanol  | 60% |
| CAS-No.  | 64-17-5 |
| Flammable liquids | Category 2 |

| • NJTSR No.56705700001-5318P  | 30% |
| CAS-No.  | Trade Secret |
| Flammable liquids | Category 4 |
| Skin irritation | Category 2 |
| Acute aquatic toxicity | Category 3 |

4. First aid measures

4.1. Description of first aid measures

General advice
Remove contaminated or saturated clothing immediately and follow safe disposal procedures.

Inhalation
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.
Skin contact
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

Eye contact
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If discomfort persists further: Consult an ophthalmologist.

Ingestion
If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed symptoms
After absorbing large amount of substance, apply therapy for irritative effects. If substance has been swallowed, early endoscopy is recommended in order to assess mucosa lesions in the esophagus and stomach which may appear. If necessary, suck away leftover substance. Allergic reactions cannot be excluded. Apply treatment of allergic reaction if necessary.

4.3. Indication of any immediate medical attention and special treatment needed
None known.

5. Fire-fighting measures

5.1. Extinguishing media
Suitable extinguishing media: Use water spray or fog, foam, dry chemical or CO₂.
Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture
Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

5.3. Advice for firefighters
As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA / NIOSH approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. Keep away from heat and sources of ignition.

6.2. Environmental precautions
Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and material for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Additional advice
Remove sources of ignition and ventilate area. Run off may create fire or explosion hazard in sewer. Assure sufficient ventilation.

7. Handling and storage
7.1. Precautions for safe handling

Wear personal protective equipment (see section 8). Keep away from heat, sparks, flames and other sources of ignition. Keep container tightly closed. Use only with adequate ventilation. Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks.

The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines.

Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106. Follow all MSDS / label precautions even after container is emptied because it may retain product residues.

Storage

Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

8. Exposure controls / personal protection

8.1. Control parameters

- Ethanol

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Permissible exposure limit:</th>
<th>(OSHA Z1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>1000 ppm</td>
<td>Time Weighted Average (TWA) Permissible Exposure Limit (PEL):</td>
<td>(US CA OEL)</td>
</tr>
<tr>
<td></td>
<td>1900 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control parameters</td>
<td>1000 ppm</td>
<td>Short Term Exposure Limit (STEL):</td>
<td>(ACGIH)</td>
</tr>
<tr>
<td></td>
<td>1900 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control parameters</td>
<td>1000 ppm</td>
<td>Time Weighted Average (TWA):</td>
<td>(TN OEL)</td>
</tr>
<tr>
<td></td>
<td>1900 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Engineering measures

Provide good ventilation or extraction.

Personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable Federal / provincial requirements must be followed whenever workplace conditions warrant respirator use.

NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Glove material for example, butyl-rubber

Material thickness 0.5 mm
Break through time >= 480 min
Glove material for example, Fluorinated rubber (Viton)
Material thickness 0.4 mm
Break through time >= 480 min
Use impermeable gloves.
The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.
Selection of protective gloves to meet the requirements of specific workplaces.
Suitability for specific workplaces should be clarified with protective glove manufacturers.

**Eye protection**
Use chemical splash goggles or face shield.

**Skin and body protection**
A safety shower and eye wash fountain should be readily available.
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

**Hygiene measures**
Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing.

---

**9. Physical and chemical properties**

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>colorless</td>
</tr>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>alcohol-like</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>14.44 °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>no data available</td>
</tr>
</tbody>
</table>
9.2. Other information
Explosiveness
Vapors can form explosive mixtures with air.

10. Stability and reactivity

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

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid
Keep away from heat and sources of ignition.

10.5. Incompatible materials
Water, oxidizing substances

10.6. Hazardous decomposition products
Stable under normal conditions. Product will not undergo hazardous polymerization.

11. Toxicological information

11.1. Information on toxicological effects
Carcinogenicity assessment: Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

Toxicological information on components
Ethanol

Acute oral toxicity
LD50 Rat: 7060 mg/kg
RTECS

LD50 Rat: 10470 mg/kg
Method: OECD Test Guideline 401
Literature

Acute inhalation toxicity
LC50 Rabbit: 117 - 125 mg/l / 4 h / vapor
Method: OECD Test Guideline 403
Literature

Acute dermal toxicity
LD50 Rabbit: > 20000 mg/kg

Skin irritation
Rabbit not irritating
Method: OECD Test Guideline 404

Eye irritation
Rabbit not irritating
Method: OECD Test Guideline 405

Sensitization
Local Lymphnode Assay Mouse: No sensitizing effects.
Method: OECD TG 429

Assessment of STOT single exposure
No evidence for hazardous properties

Assessment of STOT repeat exposure
No evidence for hazardous properties

Risk of aspiration toxicity
No evidence of aspiration toxicity

Genotoxicity in vitro
Ames test Salmonella typhimurium negative
Method: OECD TG 471

Gene mutation TK +/- mouse lymphoma cell (L5178Y) negative
Method: OECD TG 476

Mutagenicity assessment
This product contains an ingredient that has been shown to produce mutagenic effects in in vivo testing.

**Isobutyltriethoxysilane**

Acute oral toxicity
LD50 Rat: > 5000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity
LC50 Rat: 5.88 mg/l / 4 h / dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity
LD50 Rat: > 2000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin irritation
Rabbit
Skin irritation
Method: OECD Test Guideline 404
SAFETY DATA SHEET
Protectosil® 40 H

Rapid evaporation of the liquid may cause frostbite.

Eye irritation
Rabbit
No eye irritation
Method: OECD Test Guideline 405

Sensitization
Maximization test Guinea pig: Does not cause skin sensitization.
Method: OECD Test Guideline 406

Repeated dose toxicity
Oral Rat / 28-day
NOAEL: > 1000 mg/kg
Method: OECD Test Guideline 407

Assessment of STOT single exposure
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Assessment of STOT repeat exposure
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Risk of aspiration toxicity
No aspiration toxicity classification

Gentoxicity in vitro
Ames test Salmonella typhimurium negative
Method: OECD TG 471

Chromosomal aberration Chinese hamster (V 79 - cells) negative
Method: OECD TG 473

Chromosomal aberration Chinese hamster (CHO K1 - cells) negative
Method: OECD TG 476

Gentoxicity in vivo
Chromosomal aberration Mouse
Oral negative
Method: OECD TG 474

Carcinogenicity
No evidence that cancer may be caused.

Toxicity to reproduction
Animal model trials have produced no evidence of fertility damage.

Polysiloxane, containing propyl- and ethoxy groups
Skin irritation
No skin irritation

12. Ecological information

12.1. Toxicity
no data available

12.2. Persistence and degradability
12.3. **Bioaccumulative potential**

Bioaccumulation  no data available

12.4. **Mobility in soil**

Mobility  no data available

12.5. **Other adverse effects**

Further Information  No ecotoxicological studies are available.

13. **Disposal considerations**

13.1. **Waste treatment methods**

**Product**
Waste must be disposed of in accordance with federal, provincial and local regulations. Empty containers must be handled with care due to product residue. **DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN ELECTRIC OR GAS TORCH.**

**Uncleaned packaging**
Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

14. **Transport information**

**D.O.T. Road/Rail**
14.1. UN number: UN 1170
14.2. UN proper shipping name: Ethanol solution
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards (Marine pollutant): --
14.6. Special precautions for user: No

**Air transport ICAO-TI/IATA-DGR**
14.1. UN number: UN 1170
14.2. UN proper shipping name: Ethanol solution
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
  IATA-C: ERG-Code 3L
  Maximum Net Quantity per Package 60 L
  IATA-P: ERG-Code 3L
  Maximum Net Quantity per Package 5 L

**Sea transport IMDG-Code/GGVSee (Germany)**
SAFETY DATA SHEET
Protectosil® 40 H

Material no. 159101
Specification
Version 3.1 / US
Revision date 04/30/2015
Print date 09/16/2015
Order number
Page 10 10 / 13

14.1. UN number: UN 1170
14.2. UN proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards (Marine pollutant): --
14.6. Special precautions for user: No
EmS: F-E, S-D

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

15. Regulatory information

US Federal Regulations

OSHA
If listed below, chemical specific standards apply to the product or components:

• None listed

Clean Air Act Section (112)
If listed below, components present at or above the de minimus level are hazardous air pollutants:

• None listed

CERCLA Reportable Quantities
If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

• None listed

SARA Title III Section 311/312 Hazard Categories
The product meets the criteria only for the listed hazard classes:

• Acute Health Hazard
• Fire Hazard

SARA Title III Section 313 Reportable Substances
If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

• None listed

Toxic Substances Control Act (TSCA)
If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

• None listed
State Regulations

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>3</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
</tbody>
</table>

NFPA Ratings

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>3</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

16. Other information

Further information

Revision date 04/30/2015

This version replaces all previous versions.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.
<table>
<thead>
<tr>
<th>Legend</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC</td>
<td>American Chemistry Council</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>ACS</td>
<td>Advisory Committee on Sustainability</td>
</tr>
<tr>
<td>ADI</td>
<td>Acceptable Daily Intake</td>
</tr>
<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>ATP</td>
<td>Adaptation to Technical Progress</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical oxygen demand</td>
</tr>
<tr>
<td>c.c.</td>
<td>closed cup</td>
</tr>
<tr>
<td>CAO</td>
<td>Cargo Aircraft Only</td>
</tr>
<tr>
<td>Carc</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Services</td>
</tr>
<tr>
<td>CDN</td>
<td>Canada</td>
</tr>
<tr>
<td>C EPA</td>
<td>Canadian Environmental Protection Act</td>
</tr>
<tr>
<td>CERCLA</td>
<td>Comprehensive Environmental Response - Compensation and Liability Act</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CMR</td>
<td>carcinogenic- mutagenic-toxic for reproduction</td>
</tr>
<tr>
<td>COD</td>
<td>Chemical oxygen demand</td>
</tr>
<tr>
<td>DIN</td>
<td>German Institute for Standardization</td>
</tr>
<tr>
<td>DM EL</td>
<td>Derived minimum effect level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived no effect level</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
</tr>
<tr>
<td>EC50</td>
<td>half maximal effective concentration</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>ErC50</td>
<td>Reduction of Growth Rate</td>
</tr>
<tr>
<td>ERG</td>
<td>Emergency Response Guide Book</td>
</tr>
<tr>
<td>FDA</td>
<td>Food and Drug Administration</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System of Classification and Labelling of Chemicals (GHS)</td>
</tr>
<tr>
<td>GLP</td>
<td>Good Laboratory Practice</td>
</tr>
<tr>
<td>GMO</td>
<td>Genetic Modified Organism</td>
</tr>
<tr>
<td>HCS</td>
<td>Hazard Communication Standard</td>
</tr>
<tr>
<td>HMIS</td>
<td>Hazardous Materials Identification System</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IBC</td>
<td>Intermediate Bulk Container</td>
</tr>
<tr>
<td>ICAO-TI</td>
<td>International Civil Aviation Organization - Technical Instructions</td>
</tr>
<tr>
<td>ICCA</td>
<td>International Council of Chemical Association</td>
</tr>
<tr>
<td>ID</td>
<td>Identification number</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>IUPAC</td>
<td>International Union of Pure and Applied Chemistry</td>
</tr>
<tr>
<td>ISO</td>
<td>International Organization for Standardization</td>
</tr>
<tr>
<td>LC50</td>
<td>50 % Lethal Concentration</td>
</tr>
<tr>
<td>LD50</td>
<td>50 % Lethal Dose</td>
</tr>
<tr>
<td>L(E)C 50</td>
<td>LC50 or EC50</td>
</tr>
<tr>
<td>LOA EL</td>
<td>Lowest observed adverse effect level</td>
</tr>
<tr>
<td>LOEL</td>
<td>Lowest observed effect level</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Pollution from Ships</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No observed adverse effect level</td>
</tr>
<tr>
<td>NOEC</td>
<td>no observed effect concentration</td>
</tr>
<tr>
<td>NOEL</td>
<td>no observed effect level</td>
</tr>
<tr>
<td>o. c.</td>
<td>open cup</td>
</tr>
<tr>
<td>OECD</td>
<td>Organization for Economic Cooperation and Development</td>
</tr>
<tr>
<td>OEL</td>
<td>Occupational Exposure Limit</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, bioaccumulative, toxic</td>
</tr>
<tr>
<td>PEC</td>
<td>Predicted effect concentration</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted no effect concentration</td>
</tr>
<tr>
<td>RQ</td>
<td>Reportable Quantity</td>
</tr>
<tr>
<td>SDS</td>
<td>Safety Data Sheet</td>
</tr>
<tr>
<td>STOT</td>
<td>Specific Target Organ Toxicity</td>
</tr>
<tr>
<td>UN</td>
<td>United Nations</td>
</tr>
<tr>
<td>vPvB</td>
<td>very persistent, very bioaccumulative</td>
</tr>
<tr>
<td>Material no.</td>
<td>Version</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Specification</td>
<td>Revision date</td>
</tr>
<tr>
<td>Order number</td>
<td>Print date</td>
</tr>
<tr>
<td></td>
<td>Page</td>
</tr>
</tbody>
</table>

VOC: volatile organic compounds
WHMIS: Workplace Hazardous Materials Information System
WHO: World Health Organization