Solve 9340LTR

Safety Data Sheet

Date Issued: 03/17/2016
Date Revised: 03/14/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Solve 9340LTR

Company Identification: WaterSolve, LLC
5031 68th Street
Caledonia, Michigan 49316, USA
www.gowatersolve.com

For Product Information: 616-575-8693

For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

Recommended use of the chemical and restrictions on use

2. HAZARDS IDENTIFICATION

GHS classification
Skin irritation: Category 2
Specific target organ toxicity:
– single exposure: Category 3 (Central nervous system)
Aspiration Hazard: Category 1

GHS LABEL ELEMENTS
Hazard pictograms:

Signal Word: Danger

Hazard Statements: May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause drowsiness or dizziness.

Precautionary Statements: Prevention:
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.

**Response:**
- IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- IF ON SKIN: Wash with plenty of soap and water.
  Do NOT induce vomiting.
- If skin irritation persists: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.

**Storage:**
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

**Disposal:**
- Dispose of contents/container to an approved waste disposal plant

**Other hazards**
- Static Accumulation liquid

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture
**Chemical nature:** Defatter

**Hazardous Components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Classification</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALIPHATIC HYDROCARBON</td>
<td>254504001-5164</td>
<td>Flam. Liq. 4; H227 Skin Irrit. 2; H315</td>
<td>&gt;=20 - &lt; 30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT SE 3; H336</td>
<td></td>
</tr>
<tr>
<td>ALKANOL POLYALKOXYLATE</td>
<td>254504001-5531</td>
<td>Acute Tox. 4; H302 Eye Irrit. 2A; H319</td>
<td>&gt;=1.5 - &lt;5.0</td>
</tr>
</tbody>
</table>

Trade Secret Composition – conceal identity + concentration

### 4. FIRST AID MEASURES

**General Advice**
- Move out of dangerous area.
- Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
- Show this safety data sheet to the doctor in attendance.
- Symptoms of poisoning may appear several hours later.
- Do not leave the victim unattended

**If inhaled**
- Move to fresh air.
- If unconscious, place in recovery position and seek medical advice.
- Consult a physician after significant exposure.

**In case of skin contact**
- Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use.

**In case of eye contact**
- Flush eye(s) with water as a precaution.
- Remove contact lenses.
- Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed
Obtain medical attention
Do NOT induce vomiting
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician

Most important symptoms and effects, both acute and delayed
Inhalation of high concentrations of this material, as could occur in enclosed spaces of during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.
This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 – Swallowing) when deciding whether to induce vomiting.
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
- stomach or intestinal upset (nausea, vomiting, diarrhea)
- lung irritation
- confusion
- irregular heartbeat
- Convulsions
May be fatal if swallowed and enters airways
Causes serious eye irritation.
May cause drowsiness or dizziness

Notes to physician: No hazards which require special first aid measures.

5. **FIREFIGHTING MEASURES**

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media
High volume water jet

Specific hazards during firefighting
If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion
Carbon monoxide
Carbon dioxide (CO2)
Nitrogen oxides (NOx)
Hydrocarbons
Toxic fumes
6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions,** protective equipment and emergency procedures

- Use personal protective equipment.
- Ensure adequate ventilation.
- Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

**Environmental precautions**

- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up**

- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Keep in suitable, closed containers for disposal.

**Other information**

- Comply with all applicable federal, state, and local regulations.

7. **HANDLING AND STORAGE**

**Advice on safe handling**

- Avoid formation of aerosol.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Do not breathe vapours/dust.
- Do not smoke.
- Container hazardous when empty.
- Avoid exposure – obtain special instructions before use.
- Avoid contact with skin and eyes.
- Smoking, eating and drinking should be prohibited in the application area.
- For personal protection see section 8.
- Dispose of rinse water in accordance with local and national regulations.

**Conditions for safe storage**

- Keep container tightly closed in a dry and well-ventilated place.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Observe label precautions.
- Electrical installations/working materials must comply with the technological safety standards.

8. **EXPOSURE CONTROLS/PERSOAL PROTECTION**

**Components with workplace control parameters**

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS-No.</th>
<th>Value type (form of exposure)</th>
<th>Control parameters/permmissible</th>
<th>Basis</th>
</tr>
</thead>
</table>
### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

#### Respiratory protection

In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

#### Hand Protection

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

#### Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

#### Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).

Wear as appropriate:
- Impervious clothing
- Safety shoes
- Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
- Discard gloves that show tears, pinholes, or signs of wear.
- Wear resistant gloves (consult your safety equipment supplier).

#### Hygiene measures

Wash hand before breaks and at the end of workday.

When using do not eat or drink.

When using do not smoke.

### 9. 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>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>&gt;414 °F/212 °C (1013 hPa)</td>
</tr>
<tr>
<td>Flash point</td>
<td>200.8 °F/93.8 °C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1 n-Butyl Acetate</td>
</tr>
<tr>
<td>Flammability (solid,gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (liquids)</td>
<td>Static accumulating liquid</td>
</tr>
</tbody>
</table>
Upper explosion limit: 7% (V)  
Lower explosion limit: 0.6% (V)  
Vapor Pressure: 23.333333 hPa (20 °C)  
Relative vapor density: No data available  
Relative density: Approximate 1.1 (25 °C)  
Density: Approximate 1.05 g/cm³  
Solubility(ies) 
Water solubility: Soluble  
Solubility in other solvents: No data available  
Partition coefficient 
(n-octanol/water): No data available  
Decomposition temperature: No data available  
Viscosity 
Viscosity, dynamic: No data available  
Viscosity, kinematic: No data available  

10. **STABILITY AND REACTIVITY**
Reactivity: No decomposition if stored and applied as directed.  
Chemical Stability: Stable under recommended storage conditions.  
Possibility of Hazardous reactions: Product will not undergo hazardous polymerization.  
Conditions to avoid: Protect from frost. Heat, flames and sparks.  
Incompatible Materials: Halogens  
Strong acids  
Strong oxidizing agents  
Strong reducing agents.  
Hazardous decomposition products: Carbon monoxide  
Carbon Dioxide (CO₂)  
Hydrocarbons

11. **TOXICOLOGICAL INFORMATION**
Information on likely routes of exposure: Inhalation, skin contact, eye contact, ingestion.

**Acute toxicity**
Not classified based on available information.

**Components:**
**ALIPHATIC HYDROCARBON:**
Acute oral Toxicity LD 50 (Rat): > 5,000 mg/kg  
Acute inhalation toxicity: LC 50 (Rat, male and female): > 5.28 mg/l  
Exposure time: 4 hr.  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: No adverse effect has been observed in acute
inhalation toxicity tests.

Acute dermal toxicity: LD 50 (Rabbit): > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**ALKANOL POLYALKOXYLATE:**

Acute oral toxicity: LD 50 (Rat): 1,940 mg/kg  
Acute dermal toxicity: LD 50 (Rat): > 2,000 mg/kg  

**Skin corrosion/irritation:**
Causes skin irritation.  
**Product**  
**Result:** Repeated exposure may cause skin dryness or cracking  
**Remarks:** May cause skin irritation and/or dermatitis.

**Components:**
**ALIPHATIC HYDROCARBON:**
Result: Irritating to skin.

**ALKANOL POLYALKOXYLATE:**
Result: Not irritating to skin.

**Serious eye damage/eye irritation:**
Not classified based on available information.  
**Product:**  
**Remarks:** Vapors may cause irritation to the eyes, respiratory system and the skin.

**Components:**
**ALIPHATIC HYDROCARBON:**
Result: Mildly irritating to eyes.

**ALKANOL POLYALKOXYLATE:**
Result: Irritating to the eyes.

**Respiratory or skin sensitization:**
**Skin sensitization:**
Not classified based on available information  
**Respiratory sensitization:**
Not classified based on available information  
**Germ cell mutagenicity:**
Not classified based on available information  
**Carcinogenicity:**
Not classified based on available information  
**Reproductive toxicity**
Not classified based on available information  
**STOT – single exposure**
May cause drowsiness or dizziness.

**Components:**
**ALIPHATIC HYDROCARBON:**
Assessment: May cause drowsiness or dizziness.  
**STOT – repeated exposure:**
Not classified based on available information
Aspiration toxicity:  
May be fatal if swallowed and enters airways

Product:  
May be fatal if swallowed and enters airways

Further information

Product:  
Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.

Carcinogenicity
IARC:  
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA:  
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP:  
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

12. ECOLOGICAL INFORMATION
Ecotoxicity
Product:
Toxicity to fish:  
LC 50 (Oncorhynchus mykiss (rainbow trout)): 67.0 mg/l
Exposure time: 96 hr
Test type: static test
Remarks: based on similar product formulation

LC 50 (Pimephales promelas (fathead minnow)): 4.3 mg/l
Exposure time: 96 h
Test Type: static test
Remarks: based on similar product formulation.

Toxicity to daphnia and other Aquatic invertebrates:  
LC 50 (Water flea (Daphnia magna)): 1.6 mg/l
Exposure time: 48 h
Test Type: static test
Remarks: Based on similar product formulation.

Ecotoxicology Assessment
Acute Aquatic toxicity  
Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity  
Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

Components:
ALIPHATIC HYDROCARBON:
Toxicity to fish:  
LC 50 (Oncorhynchus mykiss (rainbow trout)): 2.5 mg/l
Exposure time: 96hr
Test Type: semi-static test
Test substance: WAF
Method: OECD Test Guideline 203
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertabrates
EL50 (Water flea (Daphnia magna)): 1.4 mg/l
Exposure times: 48 hr
Test type: static test
Test substance: WAF
Remarks: Information given is based on data obtained from similar substances

Toxicity to algae
EL50 (Pseudokirchneriella subcapitata (green algae)): 1-3 mg/l
Exposure time: 72 hr
Test type: Static test
Test substance: WAF
Method: OECD Test Guideline 201
Remarks: Information given is based on data obtained from similar substances

Toxicity to daphnia and other Aquatic Invertebrates (Chronic toxicity)
NOEL (Water flea (Daphnia magna)): 0.48 mg/l
Exposure time: 21 days
Test type: semi-static test
Test substance: WAF
Method: OECD Test Guideline 211
Remarks: Information given is based on data obtained from similar substances

ALKANOL POLYALKOXYLATE
Toxicity to fish
LC50 (Danio rerio (zebra fish)): 1-10 mg/l
Exposure time: 96 hr

Toxicity to daphnia and other aquatic invertebrates
EC50 (Water flea (Daphnia magna)): 5-10 mg/l
Exposure time: 48 hr

Toxicity to bacteria
EC50: > 1,000 mg/l

Persistence and degradability
Product:
Biochemical oxygen demand
Biochemical oxygen demand
548,000 mg/l

Chemical Oxygen Demand (COD)
2,176,000 mg/l
Method: Chemical oxygen demand

Components:
ALKANOL POLYALKOXYLATE:
Biodegradability
Result: Inherently biodegradable
Biodegradation: 58.6%
Exposure time: 28 days
Method: OECD Test Guideline 301F

ALKANOL POLYALKOXYLATE:
Biodegradability
Biodegradation: 50-70%
Exposure time: 28 d
Chemical Oxygen Demand (COD)

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Oxygen Demand</td>
<td>2,170 mg/g</td>
</tr>
<tr>
<td>Dissolved organic carbon (DOC)</td>
<td>540 mg/g</td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

**Components:** No data available

**Mobility in soil**

**Components:** No data available

**Other adverse effects:**
No data available.

**Product:**

**Additional ecological information:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

13. **DISPOSAL CONSIDERATIONS**

**Disposal methods**

**General Advice**

- The product should not be allowed to enter drains, water courses or the soil.
- Do not contaminate ponds, waterways or ditches with chemical or used container.
- Send to a licensed waste management company.
- Dispose of in accordance with all applicable local, state and federal regulations.

**Contaminated packaging**

- Empty remaining contents.
- Dispose of as unused product.
- Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Do not re-use empty containers.

14. **TRANSPORT INFORMATION**

**International Transport Regulations**

<table>
<thead>
<tr>
<th>ID NUMBER</th>
<th>PROPER</th>
<th>*HAZARD CLASS</th>
<th>SUBSIDIARY HAZARDS</th>
<th>PACKING GROUP</th>
<th>MARINE POLLUTANT /LTD. QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. DOT - ROAD</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. DOT - RAIL</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. DOT - INLAND WATERWAYS</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRANSPORT CANADA - ROAD</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRANSPORT CANADA - RAIL</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRANSPORT CANADA – INLAND WATERWAYS</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERNATIONAL MARITIME DANGEROUS GOODS</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOC. - CARGO</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOC. - PASSENGER</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEXICAN REGULATION FOR THE LAND TRANSPORT OF</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HAZARDOUS MATERIALS AND WASTES

*ORM = ORM-D, CBL=COMBUSTIBLE LIQUID

<table>
<thead>
<tr>
<th>Marine pollutant</th>
<th>yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous goods description (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for description that are specific to the shipment.</td>
<td></td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

SARA 311/312 Hazards: Acute Health Hazard

SARA 313 Component(s) SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

The components of this product are reported in the following inventories:

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL:</td>
<td>All components of this product are on the Canadian DSL</td>
</tr>
<tr>
<td>AUSTR:</td>
<td>On the inventory, or in compliance with the inventory.</td>
</tr>
<tr>
<td>ENCS:</td>
<td>On the inventory, or in compliance with the inventory.</td>
</tr>
<tr>
<td>KECL:</td>
<td>On the inventory, or in compliance with the inventory.</td>
</tr>
<tr>
<td>PHIL:</td>
<td>On the inventory, or in compliance with the inventory.</td>
</tr>
<tr>
<td>IECSC:</td>
<td>On the inventory, or in compliance with the inventory.</td>
</tr>
<tr>
<td>TSCA:</td>
<td>On the TSCA inventory</td>
</tr>
</tbody>
</table>

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identification number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALIPHATIC HYDROCARBON</td>
<td>254504001-5164</td>
</tr>
<tr>
<td>ALKANOL POLYALKOXYLATE</td>
<td>254504001-5531</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

<table>
<thead>
<tr>
<th>H227</th>
<th>Combustible liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Recipients are advised to confirm in advance of need that the
information is current, applicable, and suitable to their circumstances. This information is for the specific material described only and may not be valid if the material is used in combination with any other materials or in any process. The user is responsible to determine the completeness of the information and suitability for the user’s own particular use. The knowledge and belief of the company, the information is accurate and reliable as of the date indicated but the company makes no express or implied warranty of merchantability for the material or the information. The company makes no express or implied warranty of fitness for a purpose for the material or for the information. Users of any chemical should educate themselves on all aspects of its use by independent investigation of current scientific and medical knowledge that the material can be used safely. Both the supplier and manufacturer make no representations and assume no liability for any direct, incidental or consequential damages resulting from its use. Both the supplier and manufacturer make no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This information is for the specific material described only and may not be valid if the material is used in combination with any other materials or in any process. The user is responsible to determine the completeness of the information and suitability for the user’s own particular use. Users of any chemical should educate themselves on all aspects of its use by independent investigation of current scientific and medical knowledge that the material can be used safely. The buyer assumes all responsibility for using and handling the product in accordance with applicable federal, state and local regulations.

List of abbreviations and acronyms that could be, but not necessarily are, used in the safety data sheet:
ACGIH: American Conference of Industrial Hygienists
BEI: Biological Exposure Index
CAS Chemical: Abstracts Service (Division of the American Chemical Society)
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
CMR: Carcinogenic, Mutagenic or Toxic for Reproduction
DOT: Department of Transportation
FG: Food grade
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
H-statement: Hazard Statement
HMIRC: Hazardous Materials Information Review Commission
HMIS: Hazardous Materials Identification System
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulation by the “International Air Transport Association” (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI (ICAO): Technical Instructions by the “International Civil Aviation Organization”
IMDG: International Maritime Code for Dangerous Goods
ISO: International Organization for Standardization
logPow: octanol-water partition coefficient
LCxx: Lethal Concentration, for xx percent of test population
LDxx: Lethal Dose, for xx percent of test population
ICxx: Inhibitory Concentration for xx of a substance
ECxx: Effective Concentration of xx
N.O.S.: Not otherwise Specified
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OECD: Organization for Economic Co-operation and Development
OEL: Occupational Exposure Limit
OSHA: Occupational Safety and Health Administration
P-Statement: Precautionary Statement
PBT: Persistent, Bioaccumulative and Toxic
PMRA: Health Canada Pest Management Regulatory Agency
PPE: Personal Protective Equipment
RTK: Right to Know
STEL: Short-term exposure limit
SDS Safety Data Sheet
STOT: Specific Target Organ Toxicity
TLV: Threshold Limit Value
TWA: Time-weighted average
VPVB: Very Persistent and Very Bioaccumulative
WEL: Workplace Exposure Level
WHMIS: Workplace Hazardous Materials Information System
(WAF): water-accommodated fraction