# SAFETY DATA SHEET

## 1. Identification

### Product identifier

<table>
<thead>
<tr>
<th>Product Name</th>
<th>ETHYL ACETATE, REAGENT, ACS</th>
</tr>
</thead>
</table>

### Other means of identification

<table>
<thead>
<tr>
<th>Product Code(s)</th>
<th>E1025</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN/ID no</td>
<td>UN1173</td>
</tr>
</tbody>
</table>

### Synonyms

None

### Recommended use of the chemical and restrictions on use

<table>
<thead>
<tr>
<th>Recommended use</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restrictions on use</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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

**Supplier Address**
Spectrum Chemical Mfg. Corp.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

**Emergency telephone number**
Emergency Telephone
Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

### Danger

### Hazard statements

- Causes serious eye irritation
- May cause respiratory irritation
- May cause drowsiness or dizziness
- Highly flammable liquid and vapor

---

Revision date 01-December-2020
Revision Number 2
Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating / lighting / equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/eye protection/face protection
Keep cool

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other information
No information available.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance</th>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ethyl Acetate</td>
<td>141-78-6</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures
General advice
Show this safety data sheet to the doctor in attendance.
Inhalation
Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep
Skin contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Ingestion
Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider
Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

5. Fire-fighting measures

Suitable Extinguishing Media
- Dry chemical.
- Carbon dioxide (CO2).
- Water spray.
- Alcohol resistant foam.
CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media
Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical
risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazardous combustion products
Carbon Monoxide, Carbon Dioxide.

Explosion data
- Sensitivity to mechanical impact: none.
- Sensitivity to static discharge: yes.

Special protective equipment for fire-fighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information
Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment
Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other
non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate</td>
<td>No data available</td>
<td>400 ppm TWA</td>
<td>1400 mg/m³ TWA</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Hand protection

Wear suitable gloves. Impervious gloves.

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.
## 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks · Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>colorless</td>
<td></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Ether-like and Fruity</td>
<td></td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Softening point</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Molecular weight</strong></td>
<td>88.11</td>
<td></td>
</tr>
<tr>
<td><strong>VOC Content (%)</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Liquid Density</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Bulk density</strong></td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

### Other information

- **Explosive properties**: No information available
- **Oxidizing properties**: No information available
- **Softening point**: No information available
- **Molecular weight**: 88.11
- **VOC Content (%)**: No information available
- **Liquid Density**: No information available
- **Bulk density**: No information available

## 10. Stability and reactivity

- **Reactivity**: No information available.
- **Chemical stability**: Stable under normal conditions.
- **Possibility of hazardous reactions**: None under normal processing.
- **Conditions to avoid**: Heat, flames and sparks.
- **Incompatible materials**: None known based on information supplied.
- **Hazardous decomposition products**: None known based on information supplied.

## 11. Toxicological information

### Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks · Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Melting point / freezing point</strong></td>
<td>-83 °C / -117.4 °F</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Boiling point / boiling range</strong></td>
<td>77 °C / 170.6 °F</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>-4.4 °C / 24.1 °F</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>6.2 (butyl acetate = 1)</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flammability Limit in Air</strong></td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>11%</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>2%</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>10 @ 20°C (kPa)</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>3.04</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>0.9</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>Soluble in water</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Soluble in Ether</td>
<td>None known</td>
</tr>
<tr>
<td></td>
<td>Soluble in hot alcohol</td>
<td>None known</td>
</tr>
<tr>
<td></td>
<td>Soluble in Acetone</td>
<td>None known</td>
</tr>
<tr>
<td></td>
<td>Soluble in Benzene</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
<td>0.73</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>426.6 °C / 799.9 °F</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td><strong>Kinematic viscosity</strong></td>
<td>no data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Dynamic viscosity</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>

Other information

- **Explosive properties**: No information available
- **Oxidizing properties**: No information available
- **Softening point**: No information available
- **Molecular weight**: 88.11
- **VOC Content (%)**: No information available
- **Liquid Density**: No information available
- **Bulk density**: No information available
Product Information

Inhalation
Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact
Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact
Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion
Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate 141-78-6</td>
<td>= 5620 mg/kg ( Rat )</td>
<td>&gt; 18000 mg/kg ( Rabbit ) &gt; 20 mL/kg ( Rabbit )</td>
<td>= 4000 ppm ( Rat ) 4 h</td>
</tr>
</tbody>
</table>

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
May cause skin irritation.

Serious eye damage/eye irritation
Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization
No information available.

Germ cell mutagenicity
No information available.

Reproductive toxicity
No information available.

STOT - single exposure
May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure
No information available.

Target organ effects
respiratory system, Eyes, Skin.

Aspiration hazard
No information available.

Other adverse effects
No information available.

Interactive effects
No information available.

12. Ecological information

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate 141-78-6</td>
<td>EC50: =3300mg/L (48h, Desmodesmus subspicatus)</td>
<td>LC50: 220 - 250mg/L (96h, Pimephales promelas) LC50: 352 - 500mg/L (96h, Oncorhynchus mykiss) LC50: =484mg/L (96h, Oncorhynchus mykiss)</td>
<td>-</td>
<td>EC50: =560mg/L (48h, Daphnia magna)</td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.
Bioaccumulation
Inherently biodegradable.

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate 141-78-6</td>
<td>0.6</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available.

13. Disposal considerations

Waste treatment methods

**Waste from residues/unused products**
Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**
Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

14. Transport information

DOT

- **UN/ID no**: UN1173
- **Proper Shipping Name**: Ethyl acetate
- **Hazard class**: 3
- **Packing group**: II
- **Special Provisions**: IB2, T4, TP1
- **Marine Pollutant**: Severe Marine Pollutant
- **Description**: UN1173, Ethyl acetate, 3, II
- **Emergency Response Guide Number**: 129

TDG

- **UN-No**: UN1173
- **Proper Shipping Name**: Ethyl acetate
- **Hazard class**: 3
- **Packing Group**: II
- **Description**: UN1173, Ethyl acetate, 3, II

MEX

- **UN-No**: UN1173
- **Proper Shipping Name**: Ethyl acetate
- **Hazard class**: 3
- **Packing Group**: II
- **Description**: UN1173, Ethyl acetate, 3, II

ICAO (air)

- **UN-No**: UN1173
- **Proper Shipping Name**: Ethyl acetate
- **Hazard class**: 3
- **Packing Group**: II
- **Description**: UN1173, Ethyl acetate, 3, II

IATA

- **UN number**: UN1173
- **Proper Shipping Name**: Ethyl acetate
- **Transport hazard class(es)**: 3
- **Packing group**: II
- **Description**: UN1173, Ethyl acetate, 3, II

IMDG
<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1173</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Ethyl acetate</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>EmS-No</td>
<td>F-E, S-D</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>NP1</td>
</tr>
<tr>
<td>Description</td>
<td>UN1173, Ethyl acetate, 3, II, (-4.4°C c.c.)</td>
</tr>
</tbody>
</table>

**RID**

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1173</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Ethyl acetate</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>Classification code</td>
<td>F1</td>
</tr>
<tr>
<td>Description:</td>
<td>UN1173, Ethyl acetate, 3, II</td>
</tr>
<tr>
<td>Labels</td>
<td>3</td>
</tr>
</tbody>
</table>

**ADR**

<table>
<thead>
<tr>
<th>UN number</th>
<th>1173</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>Ethyl acetate</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>Classification code</td>
<td>F1</td>
</tr>
<tr>
<td>Tunnel restriction code</td>
<td>(D/E)</td>
</tr>
<tr>
<td>Description:</td>
<td>1173, Ethyl acetate, 3, II, (D/E)</td>
</tr>
<tr>
<td>Labels</td>
<td>3</td>
</tr>
</tbody>
</table>

**ADN**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN1173</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Ethyl acetate</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</td>
</tr>
<tr>
<td>Classification code</td>
<td>F1</td>
</tr>
<tr>
<td>Description</td>
<td>UN1173, Ethyl acetate, 3, II</td>
</tr>
<tr>
<td>Hazard label(s)</td>
<td>3</td>
</tr>
<tr>
<td>Limited quantity (LQ)</td>
<td>1 L</td>
</tr>
<tr>
<td>Ventilation</td>
<td>VE01</td>
</tr>
<tr>
<td>Equipment Requirements</td>
<td>PP, EX, A</td>
</tr>
</tbody>
</table>

### 15. Regulatory information

**International Inventories**

- **TSCA**
  - Complies

- **DSL/NDSL**
  - Complies

- **EINECS/ELINCS**
  - Complies

- **ENCS**
  - This product complies with ENCS:

- **IECSC**
  - This product complies with China:

- **KECL**
  - Complies

- **PICCS**
  - Complies

- **AICS**
  - All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

**Legend:**

- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** - Japan Existing and New Chemical Substances
- **IECSC** - China Inventory of Existing Chemical Substances
- **KECL** - Korean Existing and Evaluated Chemical Substances
- **PICCS** - Philippines Inventory of Chemicals and Chemical Substances
US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate</td>
<td>5000 lb final RQ</td>
<td>-</td>
</tr>
<tr>
<td>141-78-6</td>
<td>2270 kg final RQ</td>
<td></td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated under applicable state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number  Not applicable

16. Other information

NFPA
Health hazards  2
Flammability  3
Instability  0
Physical and chemical properties  -
HMIS
Health hazards  2
Flammability  3
Physical hazards  0
Personal protection  X

Key or legend to abbreviations and acronyms used in the safety data sheet
Legend  Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA  TWA (time-weighted average)
STEL  STEL (Short Term Exposure Limit)
Ceiling  Maximum limit value

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEG(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 01-December-2020
Revision Note No information available.
Disclaimer
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 a 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.

End of Safety Data Sheet