# SAFETY DATA SHEET

**Revision date** 17-July-2020 **Revision Number** 1

## 1. Identification

**Product identifier**

**Product Name** CARNOYS SOLUTION (FIXATIVE)

**Other means of identification**

**Product Code(s)** C-475

**UN/ID no** UN2924

**Synonyms** None

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

**Recommended use** No information available

**Restrictions on use** No information available

**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**

| | |
|---|---|
| Acute toxicity - Oral | Category 4 |
| Skin corrosion/irritation | Category 1 Sub-category A |
| Serious eye damage/eye irritation | Category 1 |
| Carcinogenicity | Category 2 |
| Reproductive toxicity | Category 1A |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Flammable liquids | Category 3 |

**Hazards not otherwise classified (HNOC)**
Not applicable

**Label elements**

**Danger**

**Hazard statements**
Harmful if swallowed
Causes severe skin burns and eye damage
Suspected of causing cancer
May damage fertility or the unborn child
May cause respiratory irritation. May cause drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure
Flammable liquid and vapor

**Appearance** No information available **Physical state** Liquid **Odor** No information available

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe 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
Keep cool

**Precautionary Statements - Response**
Immediately call a POISON CENTER or doctor
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Immediately call a POISON CENTER or doctor
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth
Do NOT induce vomiting
In case of fire: Use CO2, dry chemical, or foam to extinguish

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

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

**Unknown acute toxicity**
1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

**Other information**
Can burn with an invisible flame.

## 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name | CAS No | Weight-% | Trade secret |
|---|---|---|---|
| Ethyl Alcohol 200 proof | 64-17-5 | 60 | * |
| Chloroform | 67-66-3 | 31 | * |
| Acetic Acid, glacial | 64-19-7 | 9 | * |

*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. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

**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. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

## 5. Fire-fighting measures

**Suitable Extinguishing Media**
**Large Fire** 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. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

**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. Attention! Corrosive 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 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. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

**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. Keep out of the reach of children. Protect from moisture. Store locked up. Store away from other materials.

## 8. Exposure controls/personal protection

**Control parameters**

**Exposure Limits** .

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Ethyl Alcohol 200 proof<br>64-17-5 | No data available | 1000 ppm TWA<br>1900 mg/m³ TWA | - |
| Chloroform<br>67-66-3 | No data available | 50 ppm Ceiling<br>240 mg/m³ Ceiling | - |
| Acetic Acid, glacial<br>64-19-7 | No data available | 10 ppm TWA<br>25 mg/m³ TWA | - |

**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. Face protection shield.

**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. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | No information available |
| **Color** | colorless |
| **Odor** | No information available |
| **Odor threshold** | No information available |

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | < 7.0 | None known |
| **Melting point / freezing point** | -65 °C / -85 °F | None known |
| **Boiling point / boiling range** | 61 - 118 °C / 141.8 - 244.4 °F | None known |
| **Flash point** | 23.8 °C / 74.8 °F | None known |
| **Evaporation rate** | no data available | None known |
| **Flammability (solid, gas)** | no data available | None known |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |

| | | |
|---|---|---|
| **Vapor pressure** | No data available | None known |
| **Vapor density** | no data available | None known |
| **Relative density** | no data available | None known |
| **Water solubility** | No data available | None known |
| **Solubility(ies)** | Soluble in water | None known |
| **Partition coefficient** | No data available | None known |
| **Autoignition temperature** | no data available | None known |
| **Decomposition temperature** | | None known |
| **Kinematic viscosity** | no data available | None known |
| **Dynamic viscosity** | No data available | None known |

**Other information**

| | |
|---|---|
| **Explosive properties** | No information available |
| **Oxidizing properties** | No information available |
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **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. Exposure to air or moisture over prolonged periods.

**Incompatible materials** Acids. Bases. Oxidizing agent.

**Hazardous decomposition products** None known based on information supplied.

## 11. Toxicological information

**Information on likely routes of exposure**

**Product Information** .

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. 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 damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Acute toxicity**

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document** .

**ATEmix (oral)** 1,404.10 mg/kg
**ATEmix (dermal)** 6,504.90 mg/kg

**Unknown acute toxicity**

1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Ethyl Alcohol 200 proof<br>64-17-5 | = 7060 mg/kg ( Rat ) | - | 124.7 mg/L ( Rat ) 4 h |
| Chloroform<br>67-66-3 | = 450 mg/kg ( Rat ) | > 20 g/kg ( Rabbit ) | = 47702 mg/kg ( Rat ) 4 h |
| Acetic Acid, glacial<br>64-19-7 | 600 mg/kg ( Rabbit ) [NZ CCID] | 1060 mg/kg ( Rabbit ) | 11.4 mg/L ( Rat ) 4 h |

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes burns.
**Serious eye damage/eye irritation** Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.
**Respiratory or skin sensitization** No information available.
**Germ cell mutagenicity** No information available.
**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Ethyl Alcohol 200 proof<br>64-17-5 | - | Group 1 - Monograph 100E [2012] in alcoholic beverages<br>Monograph 96 [2010] in alcoholic beverages | - | - |
| Chloroform<br>67-66-3 | - | Monograph 73 [1999] | - | - |

**Legend**

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.
**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.
**Target organ effects** heart, liver, kidney, respiratory system, Eyes, Skin, central nervous system, blood, Reproductive System, Teeth.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to | Crustacea |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| | | | microorganisms | |
| Ethyl Alcohol 200 proof<br>64-17-5 | - | LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: 13400 - 15100mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) | - | LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =10800mg/L (24h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna) |
| Chloroform<br>67-66-3 | EC50: =560mg/L (48h, Desmodesmus subspicatus) | LC50: =18mg/L (96h, Lepomis macrochirus) LC50: =18mg/L (96h, Oncorhynchus mykiss) LC50: =300mg/L (96h, Poecilia reticulata) LC50: =71mg/L (96h, Pimephales promelas) | - | EC50: =29mg/L (48h, Daphnia magna) |
| Acetic Acid, glacial<br>64-19-7 | - | LC50: =75mg/L (96h, Lepomis macrochirus) LC50: =79mg/L (96h, Pimephales promelas) | - | EC50: =47mg/L (24h, Daphnia magna) EC50: =65mg/L (48h, Daphnia magna) |

**Persistence and degradability** No information available.
**Bioaccumulation** Inherently biodegradable.

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Ethyl Alcohol 200 proof<br>64-17-5 | -0.32 |
| Chloroform<br>67-66-3 | 2 |
| Acetic Acid, glacial<br>64-19-7 | -0.31 |

**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** UN2924
**Proper Shipping Name:** Flammable liquids, corrosive, n.o.s.
**Hazard class** 3
**Subsidiary Class** 8
**Packing group:** III
**Special Provisions** B1, IB3, T7, TP1, TP28
**Marine Pollutant** Severe Marine Pollutant
**Description:** UN2924, Flammable liquids, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (8), III
**Emergency Response Guide Number** 132

**TDG**

| | |
|---|---|
| **UN-No:** | UN2924 |
| **Proper Shipping Name:** | Flammable liquid, corrosive, n.o.s. |
| **Hazard class** | 3 |
| **Subsidiary Class** | 8 |
| **Packing Group:** | III |
| **Description:** | UN2924, Flammable liquid, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (8), III |

**MEX**

| | |
|---|---|
| **UN-No** | UN2924 |
| **Proper Shipping Name** | Flammable liquid, corrosive, n.o.s. |
| **Hazard class** | 3 |
| **Subsidiary Class** | 8 |
| **Special Provisions** | 223, 274 |
| **Packing Group** | III |
| **Description** | UN2924, Flammable liquid, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (8), III |

**ICAO (air)**

| | |
|---|---|
| **UN-No:** | UN2924 |
| **Proper Shipping Name:** | Flammable liquid, corrosive, n.o.s. |
| **Hazard class** | 3 |
| **Subsidiary hazard class** | 8 |
| **Packing Group:** | III |
| **Special Provisions** | A3 |
| **Description:** | UN2924, Flammable liquid, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (8), III |

**IATA**

| | |
|---|---|
| **UN number** | UN2924 |
| **Proper Shipping Name:** | Flammable liquid, corrosive, n.o.s. |
| **Transport hazard class(es)** | 3 |
| **Subsidiary hazard class** | 8 |
| **Packing group** | III |
| **Description:** | UN2924, Flammable liquid, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (8), III |

**IMDG**

| | |
|---|---|
| **UN number** | UN2924 |
| **Proper shipping name** | Flammable liquid, corrosive, n.o.s. |
| **Transport hazard class(es)** | 3 |
| **Subsidiary hazard class** | 8 |
| **Packing group** | III |
| **EmS-No** | F-E, S-C |
| **Special Provisions** | 223, 274 |
| **Marine pollutant** | NP1 |
| **Description** | UN2924, Flammable liquid, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (8), III, (23.8°C c.c.) |

**RID**

| | |
|---|---|
| **UN number** | UN2924 |
| **Proper Shipping Name:** | Flammable liquid, corrosive, n.o.s. |
| **Transport hazard class(es)** | 3 |
| **Packing group** | III |
| **Classification code** | FC |
| **Special Provisions** | 274 |
| **Description:** | UN2924, Flammable liquid, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (8), III |
| **Labels** | 3 + 8 |

**ADR**

| | |
|---|---|
| **UN number** | 2924 |
| **Proper Shipping Name:** | Flammable liquid, corrosive, n.o.s. |
| **Transport hazard class(es)** | 3 |
| **Subsidiary hazard class** | 8 |

| | |
|---|---|
| **Packing group** | III |
| **Classification code** | FC |
| **Tunnel restriction code** | (D/E) |
| **Special Provisions** | 274 |
| **Description:** | 2924, Flammable liquid, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (8), III, (D/E) |
| **Labels** | 3 + 8 |

**ADN**

| | |
|---|---|
| **UN/ID No** | UN2924 |
| **Proper shipping name** | Flammable liquid, corrosive, n.o.s. |
| **Transport hazard class(es)** | 3 |
| **Packing Group** | III |
| **Classification code** | FC |
| **Special Provisions** | 274 |
| **Description** | UN2924, Flammable liquid, corrosive, n.o.s. (Ethyl Alcohol 200 proof, Acetic Acid, glacial), 3 (+ 8), III |
| **Hazard label(s)** | 3 + 8 |
| **Limited quantity (LQ)** | 5 L |
| **ventilation** | VE01 |
| **Equipment Requirements** | PP, EP, EX, A |

## 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).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---|---|---|
| Chloroform<br>67-66-3 | 10 lb final RQ<br>4.54 kg final RQ | - |
| Acetic Acid, glacial<br>64-19-7 | 5000 lb final RQ<br>2270 kg final RQ | - |

**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** 3
**Flammability** 3
**Instability** 0
**Physical and chemical properties** -
**HMIS**
**Health hazards** 3 *
**Flammability** 3
**Physical hazards** 0
**Personal protection** X
*Chronic Hazard Star Legend* ** = Chronic Health Hazard*

**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) (AEGL(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 Environment, Health, and Safety Publications
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** | 17-July-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**