



## VAPCO PRODUCTS, INC.

### Safety Data Sheet Blowout Aerosol \*

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#### SECTION 1: Identification

##### GHS Product identifier

Product name	Blowout Aerosol *
Product number	BLO-1
Brand	Vapco

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

Super compressed gas and solvent for evaporators

##### Supplier's details

Name	Vapco Products, Inc.
Address	401 Marshall Road Valley Park, Missouri 63088 United States
Telephone	(636) 923-2121
Fax	(636) 923-3002
email	info@VapcoProducts.com

##### Emergency phone number

(800) 255-3924

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#### SECTION 2: Hazard identification

##### Classification of the substance or mixture

##### GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, oral, Cat. 4
- Carcinogenicity, Cat. 2
- Eye damage/irritation, Cat. 2B
- Gases under pressure, compressed gas
- Skin corrosion/irritation, Cat. 2

##### GHS label elements, including precautionary statements

# Safety Data Sheet

## Pictogram



## Signal word

## Warning

### Hazard statement(s)

H280  
H302  
H315  
H320  
H351

Contains gas under pressure; may explode if heated  
Harmful if swallowed  
Causes skin irritation  
Causes eye irritation  
Suspected of causing cancer

### Precautionary statement(s)

P201  
P202  
P210  
P251  
P264  
P270  
P280  
P301+P312  
P302+P352  
P305+P351+P338  
  
P308+P313  
P321  
P330  
P332+P313  
P337+P313  
P362+P364  
P403  
P405  
P410  
P410+P403  
P412  
P501

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Pressurized container: do not pierce or burn, even after use.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell.  
IF ON SKIN: Wash with plenty of water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see First Aid on this label).  
Rinse mouth.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Store in a well-ventilated place.  
Store locked up.  
Protect from sunlight.  
Protect from sunlight. Store in a well-ventilated place.  
Do not expose to temperatures exceeding 50 °C/122 °F.  
Dispose of contents/container to the specifications of local, regional, national, and international regulations.

## SECTION 3: Composition/information on ingredients

### Mixtures

### Hazardous components

#### 1. TETRACHLOROETHYLENE

Concentration	60 - 100 % (weight)
EC no.	204-825-9
CAS no.	127-18-4
Index no.	602-028-00-4

#### 2. Carbon dioxide

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Concentration 1 - 5 % (weight)  
CAS no. 124-38-9

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### SECTION 4: First-aid measures

#### Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention.
In case of skin contact	Immediately drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Immediately take off all contaminated clothing.
In case of eye contact	Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
If swallowed	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### Most important symptoms/effects, acute and delayed

**Symptoms/Injuries:** Harmful if inhaled. May cause irritation to eyes and skin.

**Symptoms/Injuries After Inhalation:** High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Inhalation is likely to cause adverse health effects including, but not limited to: irritation, difficulty breathing, and unconsciousness. In elevated concentrations, may cause asphyxiation, central nervous system effects, and increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvent material, which is associated with cardiac sensitization following very high exposures or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine and catecholamines. Careful consideration should be applied preceding administration of epinephrine or similar heart-stimulating substances.

**Symptoms/Injuries After Skin Contact:** Contact with gas/liquid escaping the container can cause dermatitis and defatting.

**Symptoms/Injuries After Eye Contact:** Contact with vapors and/or liquid escaping the container may cause irritation with redness, tearing, and blurred vision.

**Chronic Health Hazards:** Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

#### Indication of immediate medical attention and special treatment needed, if necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. Note to physician: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

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### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Dry chemical, foam, or carbon dioxide (CO<sub>2</sub>).

#### Specific hazards arising from the chemical

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**Explosion Hazard:** Container may explode in heat of fire. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

**Reactivity:** Increased risk of fire or explosion. Certain mixtures of chlorinated solvent may be flammable or reactive under certain conditions.

### Special protective actions for fire-fighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use dry chemical, foam, or carbon dioxide (CO<sub>2</sub>). Do not breathe fumes from fire or vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**Hazardous Combustion Products:** Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>), chlorine, hydrogen chloride, and phosgene.

### Further information

Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedure:** Eliminate ignition source first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### Environmental precautions

Prevent entry into sewers and public waters. Avoid release to the environment.

### Methods and materials for containment and cleaning up

**For Containment:** Ventilate area. Contain any spills with dikes or absorbents to prevent any further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material into a suitable container for disposal. Contact competent authorities after a spill.

**Waste Disposal:** Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld.

### Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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## SECTION 7: Handling and storage

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### Precautions for safe handling

**Additional Hazards When Processed:** Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. Pressurized container: may burst if heated. Do not pierce or burn, even after use.

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source. Use only outdoors or in well-ventilated area.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

**Other Precautions:** Keep out of reach of children. Follow label instructions. Vapors may collect in low lying areas.

### Conditions for safe storage, including any incompatibilities

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Store in a dry, cool place. Keep only in original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

**Incompatible Materials:** Strong acids and alkalis, strong oxidizing agents, chemically active metals (e.g. aluminum, barium, lithium, sodium, magnesium, potassium, titanium, and beryllium), concentrated nitric acid, some plastics, rubbers and coatings.

**Storage Temperature:** < 50°C/122°F.

### Specific end use(s)

Super compressed gas and solvent for evaporators

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### CAS: 124-38-9

Carbon dioxide

Cal/OSHA: 5000 ppm, (ST) 30,000 ppm PEL inhalation; NIOSH: 5000 ppm, (ST) 30,000 ppm REL inhalation;  
OSHA: 9000 mg/m<sup>3</sup> PEL inhalation; 5000 ppm PEL inhalation

#### CAS: 127-18-4

TETRACHLOROETHYLENE

Cal/OSHA: See Annotated Z-2 PEL inhalation; NIOSH: See Annotated Z-2 REL inhalation; OSHA: See Annotated Z-2 mg/m<sup>3</sup> PEL inhalation; See Annotated Z-2 ppm PEL inhalation

### Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in a well-ventilated area. Ensure all local, regional, national, and international regulations are observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

### Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Eye/face protection

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Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

### Skin protection

Wear protective gloves and clothing.

### Body protection

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

### Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

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## SECTION 9: Physical and chemical properties and safety characteristics

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear spray aerosol
Color	Colorless
Odor	Chlorinated solvent odor
Odor threshold	55 ppm
Melting point/freezing point	N/D
Boiling point or initial boiling point and boiling range	250°F (121°C)
Flammability	Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200)
Lower and upper explosion limit/flammability limit	N/D
Flash point	N/D
Explosive properties	N/D
Auto-ignition temperature	N/D
Decomposition temperature	N/D
Oxidizing properties	N/D
pH	N/A
Kinematic viscosity	1 mPa.s
Solubility	Negligible in water
Partition coefficient n-octanol/water (log value)	Pow: 2.88
Vapor pressure	18 mm Hg at 77°F (25°C)
Evaporation rate	> 0.33 (Slow)
Density and/or relative density	1.62 at 77°F (25°C)
Relative vapor density	5.8 at 77°F (25°C)

### Particle characteristics

N/A

### Supplemental information regarding physical hazard classes

N/A

### Further safety characteristics (supplemental)

N/A

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## SECTION 10: Stability and reactivity

### Reactivity

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Reacts with chemically active metals and acids. Certain mixtures of chlorinated solvents may be flammable or reactive under certain conditions. Increased risk of fire or explosion.

### Chemical stability

Contains gas under pressure; may explode if heated. Pressurized container: may burst if heated.

### Possibility of hazardous reactions

None known.

### Conditions to avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

### Incompatible materials

Strong acids and alkalis, strong oxidizing agents, chemically active metals (e.g. aluminum, barium, lithium, sodium, magnesium, potassium, titanium, and beryllium), concentrated nitric acid, some plastics, rubbers and coatings.

### Hazardous decomposition products

Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>), chlorine, hydrogen chloride, and phosgene.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

TETRACHLOROETHYLENE

LC50 Inhalation - Rat - 4100 ppm - 6 hour(s)

LD50 Skin - Rabbit - >10000 mg/kg

LD50 Oral - Rat - 2629 mg/kg

#### Skin corrosion/irritation

Contact causes irritation and may cause an allergic reaction that includes redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.

#### Serious eye damage/irritation

Contact causes irritation with stinging, burning, tearing, and redness.

#### Respiratory or skin sensitization

High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Inhalation is likely to cause adverse health effects including, but not limited to: irritation, difficulty breathing, and unconsciousness. In elevated concentrations, may cause asphyxiation, central nervous system effects, and increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvent material, which is associated with cardiac sensitization following very high exposures or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine and catecholamines. Careful consideration should be applied preceding administration of epinephrine or similar heart-stimulating substances. Prolonged exposure may cause unconsciousness, heart effects, kidney effects, and death.

#### Germ cell mutagenicity

Not classified.

#### Carcinogenicity

Possible cancer causing agents and overexposure may also include damage to skin, kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

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### Reproductive toxicity

Not classified.

### STOT-single exposure

May cause drowsiness or dizziness. Inhalation of vapors may be narcotic or anesthetic. Ingestion of liquid will cause gastrointestinal distress, irritation, and possibly nausea. Liquid or vapors may be irritating to skin and eyes.

### STOT-repeated exposure

Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

### Aspiration hazard

Not classified.

### Additional information

**Symptoms/Injuries:** Harmful if inhaled. May cause irritation to eyes and skin.

**Symptoms/Injuries After Inhalation:** High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Inhalation is likely to cause adverse health effects including, but not limited to: irritation, difficulty breathing, and unconsciousness. In elevated concentrations, may cause asphyxiation, central nervous system effects, and increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvent material, which is associated with cardiac sensitization following very high exposures or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine and catecholamines. Careful consideration should be applied preceding administration of epinephrine or similar heart-stimulating substances.

**Symptoms/Injuries After Skin Contact:** Contact with gas/liquid escaping the container can cause dermatitis and defatting.

**Symptoms/Injuries After Eye Contact:** Contact with vapors and/or liquid escaping the container may cause irritation with redness, tearing, and blurred vision.

**Chronic Health Hazards:** Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

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## SECTION 12: Ecological information

### Toxicity

TETRACHLOROETHYLENE

LC50 - Pimephales promelas (fathead minnow) - 18.4 mg/L - 96hr

LC50 - Daphnia magna (water flea) - 18 mg/L - 48hr

LC50 - Oncorhynchus mykiss (rainbow trout) - 5 mg/L - 96hr

LC50 - Lepomis macrochirus (bluegill) - 13 mg/L - 96hr

### Persistence and degradability

Component or components of this product are not biodegradable.

### Bioaccumulative potential

This product is not expected to bioaccumulate.

### Mobility in soil

This product is mobile in soil.

### Other adverse effects

This material is toxic to aquatic life.

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## SECTION 13: Disposal considerations



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## Disposal methods

### Product disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use.

### Sewage disposal

This material is toxic to aquatic life. Keep out of sewers and waterways.

### Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container.

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## SECTION 14: Transport information

### DOT (US)

UN Number: UN 1950

Class: 2.2

Packing Group: N/A

Proper Shipping Name: Aerosols, Ltd. Qty.

Marine pollutant: Yes

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### California Prop. 65 components

Chemical name: TETRACHLOROETHYLENE

CAS number: 127-18-4

04/01/1988 - Cancer

#### Canadian Domestic Substances List (DSL)

Chemical name: Ethene, tetrachloro-

CAS: 127-18-4

Chemical name: Carbon dioxide

CAS: 124-38-9

#### Comprehensive Response Compensation, and Liability Act (CERCLA)

Chemical name: Perchloroethylene

CAS number: 127-18-4

#### Connecticut Hazardous Material Survey

Chemical name: Perchloroethylene

CAS number: 127-18-4

#### Florida Right To Know Components

Chemical name: Perchloroethylene

CAS number: 127-18-4

#### Illinois Chemical Safety Act

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Chemical name: Perchloroethylene  
CAS number: 127-18-4

### Illinois Toxic Substances Disclosure to Employee Act

Chemical name: Perchloroethylene  
CAS number: 127-18-4

### Massachusetts Right To Know Components

Chemical name: Perchloroethylene  
CAS number: 127-18-4

### Michigan Right To Know Components

Chemical name: Perchloroethylene  
CAS number: 127-18-4

### Minnesota Right To Know Components

Chemical name: Perchloroethylene  
CAS number: 127-18-4

### New Jersey Right To Know Components

Common name: TETRACHLOROETHYLENE  
CAS number: 127-18-4

Common name: CARBON DIOXIDE  
CAS number: 124-38-9

### New York Right To Know Components

Chemical name: Perchloroethylene  
CAS number: 127-18-4

### Pennsylvania Right To Know Components

Chemical name: Ethene, tetrachloro-  
CAS number: 127-18-4

Chemical name: Carbon dioxide  
CAS number: 124-38-9

### Rhode Island Right To Know Components

Chemical name: Perchloroethylene  
CAS number: 127-18-4

### SARA 311/312 Hazards

Acute Health, Chronic Health

### SARA 313 Components

Chemical name: Perchloroethylene  
CAS number: 127-18-4

### Spill Reporting for Louisiana

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Chemical name: Perchloroethylene

CAS number: 127-18-4

### Spill Reporting for Massachusetts

Chemical name: Perchloroethylene

CAS number: 127-18-4

### Spill Reporting for New Jersey

Chemical name: Perchloroethylene

CAS number: 127-18-4

### Tennessee Right To Know Components

Chemical name: Perchloroethylene

CAS number: 127-18-4

### Toxic Substances Control Act (TSCA) Inventory

All chemicals are listed or exempt.

### HMIS Rating

Blowout Aerosol *	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

### NFPA Rating



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## SECTION 16: Other information

N/A = Not Applicable; N/D = Not Determined

### Further information/disclaimer

DISCLAIMER: To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

### Preparation information

## Safety Data Sheet

Preparation by: Jessica Wilson  
Date Prepared: 8-12-2021