

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** MIRANDY GREASE-X SAFETY SOLVENT MOTOR CLEANER & DEGREASER

**Other means of identification**

**SDS number:** RE1000025021

**Recommended restrictions**

**Product Use:** Cleaner

**Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor Information**

**Manufacturer**

Company Name: Mirandy Products LLC  
Address: 1078 GRAND AVE.  
S. HEMPSTEAD, NY 11550  
Telephone: 516-489-6800  
Fax:

**Emergency telephone number:** 1-866-836-8855

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Gases under pressure Compressed gas

**Health Hazards**

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1A
Specific Target Organ Toxicity - Single Exposure	Category 3 <sup>1</sup>

**Target Organs**

1. Narcotic effect.

**Environmental Hazards**

Acute hazards to the aquatic  
environment Category 3

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Contains gas under pressure; may explode if heated.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of causing genetic defects.  
May cause cancer.  
May cause drowsiness or dizziness.  
Harmful to aquatic life.

**Precautionary Statements**

**Prevention:** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Keep container tightly closed.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing.

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

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Ethene, 1,1,2-trichloro-	79-01-6	50 - <100%
2-Propanol	67-63-0	1 - <5%
Carbon dioxide	124-38-9	1 - <5%
Oxirane, 2-(chloromethyl)-	106-89-8	0.1 - <1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

<b>Ingestion:</b>	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

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

**Symptoms:** No data available.

**Hazards:** No data available.

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

**Treatment:** No data available.

#### 5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Stop flow of gas. Move containers from fire area if you can do so without risk.

##### **Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Pressurized container may explode when exposed to heat or flame.

##### **Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up:**

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:**

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

**Environmental Precautions:**

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

## 7. Handling and storage

**Precautions for safe handling:**

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Avoid contact with skin.

**Conditions for safe storage, including any incompatibilities:**

Store locked up. Protect from sunlight. Store in a cool place. Aerosol Level 1

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Ethene, 1,1,2-trichloro-	TWA	10 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	200 ppm 1,080 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	25 ppm	US. ACGIH Threshold Limit Values (2008)
	TWA	100 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	TWA	50 ppm 270 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	REL	25 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
2-Propanol	Ceil_Time	2 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
	STEL	500 ppm 1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	200 ppm	US. ACGIH Threshold Limit Values (2008)
	PEL	400 ppm 980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	400 ppm 980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	400 ppm 980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	400 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	500 ppm 1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Carbon dioxide	TWA	5,000 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	30,000 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	30,000 ppm 54,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	5,000 ppm 9,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5,000 ppm 9,000 mg/m3	US. OSHA Table Z-1 Limits for Air

				Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10,000 ppm	18,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	30,000 ppm	54,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Oxirane, 2-(chloromethyl)-	TWA	2 ppm	8 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	5 ppm	19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.5 ppm		US. ACGIH Threshold Limit Values (2008)

#### Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Ethene, 1,1,2-trichloro- (Trichloroacetic acid: Sampling time: End of shift at end of work week.)	15 mg/l (Urine)	ACGIH BEL (03 2013)
Ethene, 1,1,2-trichloro- (Trichloroethanol, without hydrolysis: Sampling time: End of shift at end of work week.)	0.5 mg/l (Blood)	ACGIH BEL (03 2013)
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEL (03 2013)

#### Appropriate Engineering Controls

No data available.

#### Individual protection measures, such as personal protective equipment

##### General information:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

##### Eye/face protection:

Wear safety glasses with side shields (or goggles).

##### Skin Protection

##### Hand Protection:

No data available.

##### Other:

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

##### Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

##### Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin.

## 9. Physical and chemical properties

## Appearance

Physical state:	Gas
Form:	Compressed gas
Color:	No data available.
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
Flammability limit - upper (%):	Estimated 52 %(V)
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
<b>Solubility(ies)</b>	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

## 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

## 11. Toxicological information

**Information on likely routes of exposure**

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

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

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:**

**Dermal**

**Product:**

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

#### **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

Ethene, 1,1,2-trichloro-	Overall evaluation: 1. Carcinogenic to humans.
Oxirane, 2-(chloromethyl)-	Overall evaluation: 2A. Probably carcinogenic to humans.

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

Ethene, 1,1,2-trichloro-	Known To Be Human Carcinogen.
Oxirane, 2-(chloromethyl)-	2- Reasonably Anticipated to be a Human Carcinogen.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

#### **Germ Cell Mutagenicity**

##### **In vitro**

**Product:** No data available.

##### **In vivo**

**Product:** No data available.

#### **Reproductive toxicity**

**Product:** No data available.

#### **Specific Target Organ Toxicity - Single Exposure**

**Product:** Narcotic effect. - Category 3 with narcotic effects.

#### **Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

##### **Target Organs**

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

#### **Aspiration Hazard**

**Product:** No data available.

**Other effects:** Central nervous system

## **12. Ecological information**

#### **Ecotoxicity:**

##### **Acute hazards to the aquatic environment:**

##### **Fish**

**Product:** No data available.

##### **Aquatic Invertebrates**



**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Ethene, 1,1,2-trichloro- No data available.

2-Propanol No data available.

Carbon dioxide No data available.

Oxirane, 2-(chloromethyl)- No data available.

**Other adverse effects:** Harmful to aquatic organisms.

<b>13. Disposal considerations</b>
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**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** No data available.

## 14. Transport information

### DOT

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, non-flammable
Transport Hazard Class(es)	
Class:	2.2
Label(s):	—
Packing Group:	II
Marine Pollutant:	No
Environmental Hazards:	No
Marine Pollutant	No
Special precautions for user:	Not regulated.

### IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, non-flammable
Transport Hazard Class(es)	
Class:	2
Label(s):	—
EmS No.:	
Packing Group:	—
Environmental Hazards:	No
Marine Pollutant	No
Special precautions for user:	Not regulated.

### IATA

UN Number:	UN 1950
Proper Shipping Name:	Aerosols, non-flammable
Transport Hazard Class(es):	
Class:	2.2
Label(s):	—
Packing Group:	—
Environmental Hazards:	No
Marine Pollutant	No
Special precautions for user:	Not regulated.
Cargo aircraft only:	Forbidden.

## 15. Regulatory information

### US Federal Regulations

**Restrictions on use:** Not known.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ethene, 1,1,2-trichloro-	lbs. 100
2-Propanol	lbs. 100
Oxirane, 2-(chloromethyl)-	lbs. 100

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Sudden Release of Pressure  
Immediate (Acute) Health Hazards  
Delayed (Chronic) Health Hazard  
Gases under pressure  
Skin Corrosion/Irritation  
Serious Eye Damage/Eye Irritation  
Germ Cell Mutagenicity  
Carcinogenicity  
Specific Target Organ Toxicity - Single Exposure  
Simple asphyxiant

**SARA 302 Extremely Hazardous Substance**

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
Oxirane, 2-(chloromethyl)-	lbs. 100	lbs. 1000

**SARA 304 Emergency Release Notification**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ethene, 1,1,2-trichloro-	lbs. 100
2-Propanol	lbs. 100
Oxirane, 2-(chloromethyl)-	lbs. 100

**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Oxirane, 2-(chloromethyl)-	lbs
Ethene, 1,1,2-trichloro-	10000 lbs
2-Propanol	10000 lbs
Carbon dioxide	10000 lbs

**SARA 313 (TRI Reporting)**

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
Ethene, 1,1,2-trichloro-	lbs	lbs.
2-Propanol	lbs	lbs.
Oxirane, 2-(chloromethyl)-	lbs	lbs.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

**US State Regulations**

**US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethene, 1,1,2-trichloro-      Carcinogenic. 05 2011

Ethene, 1,1,2-trichloro-	Male reproductive toxin. 04 2014
Ethene, 1,1,2-trichloro-	Developmental toxin. 04 2014
Oxirane, 2-(chloromethyl)-	Carcinogenic. 05 2011
Oxirane, 2-(chloromethyl)-	Male reproductive toxin. 03 2008

#### **US. New Jersey Worker and Community Right-to-Know Act**

##### **Chemical Identity**

Ethene, 1,1,2-trichloro-  
2-Propanol  
Carbon dioxide  
Oxirane, 2-(chloromethyl)-

#### **US. Massachusetts RTK - Substance List**

##### **Chemical Identity**

Ethene, 1,1,2-trichloro-  
Oxirane, 2-(chloromethyl)-

#### **US. Pennsylvania RTK - Hazardous Substances**

##### **Chemical Identity**

Ethene, 1,1,2-trichloro-  
2-Propanol  
Carbon dioxide  
Oxirane, 2-(chloromethyl)-

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

#### **International regulations**

##### **Montreal protocol**

Not applicable

##### **Stockholm convention**

Not applicable

##### **Rotterdam convention**

Not applicable

##### **Kyoto protocol**

**Inventory Status:**

EINECS, ELINCS or NLP:	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Mexico INSQ:	On or in compliance with the inventory
Ontario Inventory:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

<b>16. Other information, including date of preparation or last revision</b>
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**Issue Date:** 10/23/2019

**Revision Information:** No data available.

**Version #:** 1.1

**Further Information:** No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.