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# SAFETY DATA SHEET

# 1. Identification

Product identifier: C-60 SOLVENT DEGREASER

Other means of identification

**SDS number:** RE1000000599

Recommended restrictions

Product Use: Cleaner

Restrictions on use: Not known.

# Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name: Sprayway, Inc.

Address: 1000 INTEGRAM DR.

Pacific, MO 63069

Telephone: 1-630-628-3000

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 - Category 3<sup>1</sup>

Single Exposure

#### **Target Organs**

1. Narcotic effect.

#### **Environmental Hazards**

Acute hazards to the aquatic Category 3 environment

# **Label Elements**

#### **Hazard Symbol:**



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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



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#### **Mixtures**

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

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

# 4. First-aid measures

**Ingestion:** Call a physician or poison control center immediately. Never give liquid to

an unconscious person. Do not induce vomiting without advice from poison

control center. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** 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.

Eye contact: 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: No unusual fire or explosion hazards noted.

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:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.



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Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

#### 6. Accidental release measures

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

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.

commod areas. Stop the new or material

**Environmental Precautions:** 

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

# 7. Handling and storage

Precautions for safe handling:

Do not taste or swallow. Wash hands thoroughly after 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. Avoid contact with skin.

Conditions for safe storage, including any incompatibilities:

Store locked up. Aerosol Level 1

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	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)
	Ceil_Time	2 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
Carbon dioxide	TWA	5,000 ppm	US. ACGIH Threshold Limit Values (2008)
	STEL	30,000 ppm	US. ACGIH Threshold Limit Values (2008)



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	STEL	20 000 nnm	54.000	US. NIOSH: Pocket Guide to Chemical
	SIEL	30,000 ppm	54,000	
			mg/m3	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	US. OSHA Table Z-1-A (29 CFR 1910.1000)
			mg/m3	(1989)
	STEL	30,000 ppm	54,000	US. OSHA Table Z-1-A (29 CFR 1910.1000)
			mg/m3	(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)

# 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 suitable protective clothing. 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. Do not eat, drink or smoke

when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes.

Wash contaminated clothing before reuse. Avoid contact with skin.



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# 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. No data available. Melting point/freezing point: 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.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

**Vapor pressure:** 4,826.3301 - 6,205.2816 hPa (20 °C)

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

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.



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**Hazardous Decomposition** 

**Products:** 

No data available.

#### 11. Toxicological information

Information on like	y routes of exposure
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**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.



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

Ethene, 1,1,2- Overall evaluation: 1. Carcinogenic to humans.

trichloro-

Oxirane, 2- Overall evaluation: 2A. Probably carcinogenic to humans.

(chloromethyl)-

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

Ethene, 1,1,2- Known To Be Human Carcinogen.

trichloro-

Oxirane, 2- Reasonably Anticipated to be a Human Carcinogen.

(chloromethyl)-

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:** No data available.

**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: Narcotic effect.

# 12. Ecological information

# **Ecotoxicity:**

Acute hazards to the aquatic environment:



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

Other adverse effects: Harmful to aquatic organisms.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**Contaminated Packaging:** No data available.



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# 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: Allowed.

# 15. Regulatory information

# **US Federal Regulations**

Restrictions on use: Not known.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)



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# 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 Oxirane, 2- lbs. 100

(chloromethyl)-

# 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>Reportable</u>

Chemical Identity quantity Threshold Planning Quantity

Oxirane, 2- lbs. 100 lbs. 1000

(chloromethyl)-

#### **SARA 304 Emergency Release Notification**

**Chemical Identity** Reportable quantity

Ethene, 1,1,2-trichloro- lbs. 100 Oxirane, 2- lbs. 100

(chloromethyl)-

#### SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

Oxirane, 2-(chloromethyl)Ethene, 1,1,2-trichloroCarbon dioxide

Oxirane, 2-(chloromethyl)Ibs
10000 lbs

SARA 313 (TRI Reporting)

Reporting threshold for threshold for manufacturing and

Chemical Identity other users processing

Ethene, 1,1,2-trichloro- lbs lbs. Oxirane, 2- lbs lbs.

(chloromethyl)-

# 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.



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

Ethene, 1,1,2-trichloroEthene, 1,1,2-trichloroDevelopmental 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-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-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**



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**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

#### 16.Other information, including date of preparation or last revision

Issue Date: 09/11/2019

**Revision Information:** No data available.

Version #: 1.2

**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.



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