

Safety Data Sheet



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Section 1. Chemical Product and Company Identification

Product Name Safe Solv
Product Use Solvent Degreaser and Brake Parts Cleaner
Product Code 4536
Date of Issue 5/25/2017
Supersedes -

Emergency Telephone Numbers

CHEMTREC- 1-800-424-9300

(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

Section 2. Hazards Identification

Emergency Overview

DANGER



Health Hazards

Acute Toxicity; Inhalation	Category 4
Skin Corrosion/Irritation	Category 2
Serious eye damage/ eye irritation	Category 2A
STOT; single exposure, Narcotic Effects	Category 3
Carcinogenicity	Category 1A

Precautionary Statements:

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing mist/vapors/spray
P264	Wash skin thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/face protection/eye protection
P302+P352	IF ON SKIN: wash with plenty of soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a recovery position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	IF skin irritation persists: Get medical advice/attention
P337+P313	IF eye irritation occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up
P501	Dispose of in accordance with federal, state and local regulations

Hazard Statements:

H315	Causes skin irritation
H319	Causes severe eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H350	May cause cancer

Routes of Entry Dermal, Oral, and Inhalation

Acute Effects:

Eyes Severely irritating, and may cause blurred vision
Skin Severely irritating if not removed promptly; chemical burns if contact is prolonged
Inhalation Headache, dizziness, drowsiness, irritation, intoxication may occur
Ingestion Causes a burning sensation in mouth & throat; headache, dizziness, drowsiness, intoxication & vomiting

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS Number	% by Weight
1,1,2-Trichloroethylene	79-01-6	<100
1,2-Butylene oxide	106-88-7	0.5
Stabilizers	-	0.1

Section 4. First Aid Measures

Eye Contact Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if irritation persists.
Skin Contact Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered
Inhalation Remove to fresh air. If breathing stops, administer artificial respiration and seek medical aid promptly.
Ingestion Give plenty of water to dilute product. Do not induce vomiting. If vomiting occurs, lower victim's head below hips to prevent aspiration hazard. Seek immediate medical attention.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A)
(estimated rating)



Hazardous Combustion Products Hydrogen chloride, carbon monoxide, carbon dioxide and trace amounts of phosgene and chlorine
Extinguishing Media Water for, fine spray, dry chemical, CO₂, or foam
Unsuitable Extinguishing Media N/A
Fire Fighting Procedures Wear PPE. Move all personnel upwind. Contain run off if possible. Containers may rupture when exposed to high amounts of heat.

Section 6. Accidental Release Measures

Spill Clean Up All spilled material must be contained and kept out of waterways, sewers and drains. The spilled chemical should be absorbed with an inert material. Flush cleaned area thoroughly with water.

Section 7. Handling and Storage

Handling and Storage Avoid breathing in vapor. Do not take internally. Avoid contact with eyes, skin and clothing. Do not cut, drill, grind, or weld on empty containers, as residues may still be contained. Store in a cool, dry place. Keep out of the reach of children. Keep container tightly closed.

Section 8. Exposure Controls/Personal Protection**Exposure Limits**

Product Name	OSHA PEL	NIOSH REL	AIHA WEEL	ACGIH TLV
1,1,2-Trichloroethylene (79-01-6)	100 ppm	25 ppm	-	100 ppm

Engineering Controls Use with adequate local ventilation



Personal Protective Equipment (PPE)

Eyes Splash goggles or face shield
Body Rubber or neoprene gloves
Respiratory Use a NIOSH approved respirator if TLV are reached or exceeded

Section 9. Physical and Chemical Properties

Physical State	Liquid	Explosive Limits	N/A
Color	Clear	Vapor Pressure	54.25 mmHg
Odor	Characteristic	Vapor Density	4.5
Odor Threshold	N/A	Relative Density	N/A
pH	N/A	Solubility	0.1% in water
Freezing Point	N/A	Partition Coefficient	N/A
Boiling Point	189°F	Auto-Ignition Temp.	N/A
Flash Point	None	Decomposition Temp.	N/A
Evaporation Rate	N/A	Viscosity	N/A
Flammability	N/A	Specific Gravity	N/A

Section 10. Stability and Reactivity

Stability and Reactivity	Stable
Incompatibility	Strong bases, strong oxidizers, strong alkali metal hydroxides, amines, potassium, sodium and metals such as: zinc powders, aluminum powders, aluminum alloys and magnesium powders,
Hazardous Polymerization	Will not occur
Hazardous Decomposition Products	Hydrogen chloride, carbon monoxide, carbon dioxide and trace amounts of phosgene and chlorine
Conditions to Avoid	Elevated temperatures, open flames, welding arcs, direct sunlight and ultraviolet sources

Section 11. Toxicological Information

Routes of Entry	Dermal, oral and inhalation
Symptoms	Irritation
Skin Irritant	Yes
Eye Irritant	Yes
Sensitizers	Not determined
Mutagenicity	No information found
Carcinogenicity	1,1,2-Trichloroethylene(79-01-6): IARC Group 1 (known human carcinogen) 1,2-Butylene oxide (106-88-7): IARC Group 2B (suspected human carcinogen)
Reproductive Toxicity	No information found
Target Organs	None

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate (ATE) using the additive formula has been determined.

Acute Toxicity

Test	Results	Basis
Dermal	10,000 mg/kg	ATE determined beyond Category 4
Oral	4,920 mg/kg	ATE determined beyond Category 4
Inhalation	12,500 ppm	ATE determined Category 4

Section 12. Ecological Information

Environmental Effects No ecological information available

Section 13. Disposal Considerations

Waste Information Dispose of in accordance with all Federal, State and Local pollution control regulations.

Section 14. Transportation Information

Regulatory Information	UN number	Proper Shipping Name	Classes	Packaging Group	Label Code
DOT Classification	UN1710	Trichloroethylene	6	PGIII	Inhalation toxicity

Note: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Section 15. Regulatory Information

US Federal Regulations The following substances are listed as a toxic chemical and are subject to report under the SARA act Section 313:

1,1,2-Trichloroethylene	79-01-6	<100%
1,2-Butylene oxide	106-88-7	0.5%

The following substances have CERCLA reportable quantity values (in pounds):

1,1,2-Trichloroethylene	79-01-6	100
1,2-Butylene oxide	106-88-7	100

State Regulations The following substance is known to the State of California Prop 65 for causing cancer and reproductive male toxicity:

1,1,2-Trichloroethylene 79-01-6

Section 16. Other Information

Last Revision 5/25/2017

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.