



Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>4</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	2	Fire Hazard	4	Reactivity	0		
Health Hazard	2								
Fire Hazard	4								
Reactivity	0								

Issuing Date 25-Aug-2009

Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Preval
Recommended Use Propellant. (For Paint dispensing).

Supplier Address

Chicago Aerosol
1300 North St
Coal City, IL
60416
TEL: 815-634-5100

Emergency Telephone Number Chemtrec 1-800-424-9300
001-703-527-3887 (EU)

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Flammable

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing
May cause central nervous system depression
Causes adverse cardiovascular effects

Appearance Colorless

Physical State Aerosol.

Odor Slight ethereal

Potential Health Effects

Acute Toxicity

Eyes

May cause irritation. Contact with product may cause frostbite.

Skin

May cause frostbite. Irritating to skin.

Inhalation

Harmful by inhalation. Inhalation of vapors in high concentration may cause irritation of respiratory system. At very high concentrations can displace the normal air and cause suffocation from lack of oxygen. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Ingestion

Not an expected route of exposure. May cause additional effects as listed under "Inhalation".

Chronic Effects

Avoid repeated exposure. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions

Cardiovascular, Respiratory disorders, Central nervous system.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Dimethyl ether	115-10-6	40-70
Isobutane	75-28-5	15-40
Propane	74-98-6	15-40

4. FIRST AID MEASURES

General Advice	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off with warm water and soap. In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult and you are trained. If breathing has stopped, contact emergency medical services immediately.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Consult a physician.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Extremely flammable liquefied gas. Vapors from liquefied gas are initially heavier than air and spread along ground. Containers may explode when heated.
Flash Point Method	-155°F / -104°C estimated
Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire. Dry chemical or CO ₂ . Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide (CO ₂), Formaldehyde.
Explosion Data	
Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	Yes.
Specific Hazards Arising from the Chemical	Vapors from liquefied gas are initially heavier than air and spread along ground. Vapors may travel to areas away from work site before igniting/flashing back to vapor source*. Cylinders exposed to fire may vent and release flammable gas through pressure relief devices . Ruptured cylinders may rocket.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA **Health Hazard** 2 **Flammability** 4 **Stability** 0 **Physical and Chemical Hazards** -

HMIS **Health Hazard** 2 **Flammability** 4 **Physical Hazard** 0 **Personal Protection** -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Stop leak if you can do it without risk. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges. Pay attention to flashback. Keep people away from and upwind of spill/leak.
Environmental Precautions	Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined areas.
Methods for Containment	If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.
Methods for Cleaning Up	This material is a gas at room temperature. Do not direct water at spill or source of leak.
Other Information	Ventilate the area.

7. HANDLING AND STORAGE

Handling	Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Contents under pressure. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can.
Storage	Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Keep at temperature not exceeding 52°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isobutane 75-28-5	TWA: 1000 ppm	N/A	N/A
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m ³	IDLH: 2100 ppm 10% LEL TWA: 1000 ppm TWA: 1800 mg/m ³

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures	Showers Eyewash stations Ventilation systems
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Personal Protective Equipment

Eye/Face Protection
Skin and Body Protection
Respiratory Protection

Safety glasses with side-shields.
Wear fire/flame resistant/retardant clothing. Antistatic boots. Neoprene gloves.
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless.	Odor	Slight ethereal.
Odor Threshold	No information available	Physical State	Aerosol
pH	No information available		
Flash Point	-155°F / -104°C	Method	estimated
Autoignition Temperature	No information available	Decomposition Temperature	No information available
Boiling Point/Range	-42.2 to -11.7°C	Melting Point/Range	No information available
Flammability Limits in Air	No information available	Explosion Limits	No information available
Specific Gravity	0.6	Water Solubility	3.5%.
Solubility	No information available	Evaporation Rate	No information available
Vapor Pressure	No data available	Vapor Density	No data available
VOC Content	Not applicable		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Strong oxidizing agents. Halogens. Strong acids. Aluminium hydride. Aluminum lithium hydride.
Conditions to Avoid	Heat, flames and sparks. Temperatures above 52°C.
Hazardous Decomposition Products	Formaldehyde. Carbon monoxide (CO). Carbon dioxide (CO ₂).
Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	No acute toxicity information is available for this product.
Inhalation	May be harmful if inhaled. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.
Eye Contact	May cause irritation.
Skin Contact	Contact with product may cause frostbite.
Ingestion	Not an expected route of exposure.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dimethyl ether			308.5 mg/L (Rat) 4 h

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isobutane			658 mg/L (Rat) 4 h
Propane			658 mg/L (Rat) 4 h

Chronic Toxicity

Chronic Toxicity Avoid repeated exposure. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Carcinogenicity There are no known carcinogenic chemicals in this product.

Target Organ Effects Central nervous system (CNS), Heart.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Log Pow
Isobutane	2.88
Propane	2.3

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Dispose of in accordance with local regulations. Do not re-use empty containers.

US EPA Waste Number D001

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer commodity
Hazard Class ORM-D
Description Consumer commodity, ORM-D
Emergency Response Guide Number 126

TDG

Proper Shipping Name Aerosols
Hazard Class 2.1
UN-No UN1950
Description AEROSOLS, 2.1, UN1950

MEX

Proper Shipping Name Aerosols
Hazard Class 2.1
UN-No UN1950
Description UN1950 Aerosols, 2,

ICAO

14. TRANSPORT INFORMATION

UN-No	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.1
Description	Aerosols,UN1950

IATA

UN-No	ID8000
Proper Shipping Name	Consumer Commodity
Hazard Class	9
ERG Code	9L
Special Provisions	A112
Description	ID8000, Consumer Commodity, 9

IMDG/IMO

Proper Shipping Name	Aerosols
Hazard Class	2.1
Subsidiary Class	+
UN-No	UN1950
EmS No.	F-D, S-U
Description	UN1950, Aerosols,2(+)

RID

Proper Shipping Name	Aerosols
Hazard Class	2.1
UN-No	UN1950
Classification Code	5A
Description	UN1950 Aerosols,2,RID
ADR/RID-Labels	2

ADR

Proper Shipping Name	Aerosols
Hazard Class	2.1
UN-No	UN1950
Classification Code	5A
Description	UN1950 Aerosols,2,

ADN

Proper Shipping Name	Aerosols
Hazard Class	2.1
Classification Code	5F
Special Provisions	190, 327, 625
Description	UN1950 Aerosols,2,
Hazard Labels	2.1
Limited Quantity	LQ2
Ventilation	VE01, VE04

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
EINECS	Complies
ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies

15. REGULATORY INFORMATION

AICS	Complies
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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 Commercial Chemical Substances/EU 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
AICS - Australian Inventory of Chemical Substances

U.S. 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

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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).

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dimethyl ether	X	X	X		X
Isobutane	X	X	X		
Propane	X	X	X		X

International Regulations**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

A Compressed gases
 B1 Flammable gas



16. OTHER INFORMATION

Issuing Date 25-Aug-2009
Revision Date
Revision Note No information available

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet