

EVCOR SOLUTIONS INC

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name: Glide - PTFE Dry Lubricant & Release Agent

Effective date January 1, 2015

Company information: Evcor Solutions Inc. 6107 - 530 Adelaide Street West, Toronto, ON M5V 1T5

Company phone General Assistance 1-800-860-1537

Emergency telephone US 1-866-836-8855

Emergency telephone outside US 1-952-852-4646

Version #

Supersedes date January 1, 2015

Emergency overview Aerosol. EXTREMELY FLAMMABLE

CONTENTS UNDER PRESSURE. Will be easily ignited by heat, spark or flames.

Irritating to respiratory system. Prolonged exposure may cause chronic effects.

2. Hazards Identification

Routes of exposure Inhalation. Ingestion. Skin contact.

Potential health effects

Eyes Health injuries are not known or expected under normal use. Eye contact may result in corneal injury.

Skin Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.

Target organs Central nervous system. Lungs.

Chronic effects Unconsciousness. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage. Prolonged skin contact may defat the skin and produce dermatitis.

Signs and symptoms Discomfort in the chest. Narcosis. Cyanosis. Defatting of the skin. Irritation.

CAS # Percent

74-98-6 20 - 30

Components

Propane

n-Butane 106-97-8 20 - 30

Aliphatic Petroleum Solvent 64742-89-8 20 - 30

Acetone 67-64-1 10 - 15

Ethyl Alcohol 64-17-5 3 - 5

Non-hazardous and other components below reportable levels 2.5 - 10

3. Composition / Information on Ingredients

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

First aid procedures

4. First Aid Measures

Skin contact Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists.

Product name: TFE Dry Coating, Lubricant and Release Agent

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

Ingestion If material is ingested, immediately contact a poison control center. Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to physician Symptoms may be delayed.

Flammable properties Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

5. Fire Fighting Measures

Suitable extinguishing media Alcohol foam. Dry chemical. Carbon dioxide (CO₂). Do not use water jet.

Extinguishing media

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Protection of firefighters

Protective equipment and precautions for firefighters

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Methods for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.

6. Accidental Release Measures

Methods for cleaning up Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Avoid dust formation.

Handling Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.

7. Handling and Storage

Storage Level 3 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep container

tightly closed. Keep in an area equipped with sprinklers. Keep out of the reach of children. Level 3 Aerosol. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

Exposure limits

ACGIH

Components CAS #

Propane 74-98-6

TWA

1000 ppm

STEL

Not established

Ceiling

Not established

n-Butane 106-97-8 1000 ppm Not established Not established

Acetone 67-64-1 500 ppm 750 ppm Not established

Ethyl Alcohol 64-17-5 1000 ppm 1000 ppm Not established

8. Exposure Controls / Personal Protection

OSHA

Components CAS #

Propane 74-98-6

TWA

1000 ppm

STEL

Not established

Ceiling

Not established

Acetone 67-64-1 1000 ppm Not established Not established

Ethyl Alcohol 64-17-5 1000 ppm Not established Not established

Eye / face protection Wear chemical goggles.

Personal protective equipment

Skin protection Wear appropriate chemical resistant clothing. Protective gloves.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Appearance Compressed liquefied gas.

9. Physical & Chemical Properties

Boiling point 77 °F (25 °C) estimated

Color Tan.

Density 0.6264 g/cm³ estimated

Flammability (HOC) 37.9416 kJ/g estimated

Flash back Yes

Flash point -156 °F (-104.4 °C) Propellant

Form Liquid. Aerosol.

Freezing point Not available

Odor None known.

pH Not applicable

Physical state Liquid.

Pressure 55 - 70 psig @70°F

Solubility Partially

Specific gravity 0.6265 estimated

Chemical stability Risk of ignition.

10. Chemical Stability & Reactivity Information

Conditions to avoid Heat, flames and sparks.

Hazardous decomposition products No hazardous decomposition products are known.

Acute effects Acute LD50: 12472 mg/kg estimated, Rat, Dermal

Acute LC50: 340 mg/l/4h estimated, Rat, Inhalation

11. Toxicological Information

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Acetone 67-64-1 Oral LD50 Rat 5800 mg/kg

Aliphatic Petroleum Solvent 64742-89-8 Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg

Ethyl Alcohol 64-17-5 Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

n-Butane 106-97-8 Inhalation LC50 Rat 658 mg/L 4 h

Propane 74-98-6 Inhalation LC50 Rat 658 mg/L 4 h

Sensitization Not expected to be hazardous by OSHA criteria.

Carcinogenicity

IARC - Group 1 (Carcinogenic to Humans)

64-17-5 Monograph 100E [2012] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages)

Ethyl Alcohol

Teratogenicity Not expected to be hazardous by OSHA criteria.

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

LC50 31781 mg/L, Fish, 96.00 Hours,

EC50 74496 mg/L, Daphnia, 48.00 Hours,

IC50 21311 mg/L, Algae, 72.00 Hours,

12. Ecological Information

Waste codes D001: Waste Flammable material with a flash point <140 F

13. Disposal Considerations

Disposal instructions Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

Department of Transportation (DOT) Requirements

Aerosols

2.1

UN1950

Hazard class

UN number

Proper shipping name

Basic shipping requirements:

153, N82

LTD QTY

None

None

Special provisions

Packaging exceptions

Packaging non bulk

Packaging bulk

Additional information:

14. Transport Information

Further information This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2013, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IMDG

AEROSOLS

2.1

1950

Hazard class

UN number

Proper shipping name

Basic shipping requirements:

LTD QTY

5F

None

2

Packaging exceptions

Item

Labels required

Transport Category

Additional information:

Product name: TFE Dry Coating, Lubricant and Release Agent

Product #: 295-002 Revision date: 06-FEB-2013 Print date: 06-FEB-2013

MSDS US

4 / 6

Dry Lubricant & Release Agent

IATA

Aerosols, flammable

2.1

1950

Hazard class

UN number

Proper shipping name

Basic shipping requirements:

LTD QTY

None

Packaging exceptions

Labels required

Additional information:

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

15. Regulatory Information

29 CFR 1910.1200 hazardous

chemical

Yes

Occupational Safety and Health Administration (OSHA)

Acetone: 5000.0000

CERCLA (Superfund) reportable quantity

Section 302 extremely

hazardous substance

No

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311 hazardous chemical

Yes
Hazard categories (311/312) Immediate Hazard - Yes

Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

No

No

No

No

No

China

Europe

Europe

Japan

Korea

Inventory of Existing Chemical Substances in China (IECSC)

European Inventory of New and Existing Chemicals (EINECS)

European List of Notified Chemical Substances (ELINCS)

Inventory of Existing and New Chemical Substances (ENCS)

Existing Chemicals List (ECL)

Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Acetone 67-64-1 Environmental hazard

Aliphatic Petroleum Solvent 64742-89-8 Present

Ethyl Alcohol 64-17-5 Present

n-Butane 106-97-8 Present

Propane 74-98-6 Present

WARNING: This product contains a chemical known to the State of California to cause cancer.

Further information HMIS® is a registered trade and service mark of the NPCA.

16. Other Information

HMIS® ratings Health: 1*

Flammability: 4

Physical hazard: 0

Disclaimer The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

MSDS sections updated Product and Company Identification: Product Review

Transport Information: Further information

Prepared by Regulatory Compliance