

**SAFETY DATA SHEET**

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Inkcups Now	Telephone	1-800-780-8071
20 Locust St.	Fax	1-978-646-8981
Danvers, MA. 01923	Emergency telephone	Chemtrec 1-800-424-9300

Product name GLYCOL ETHER DP-M

Product code No data

Product Use Description No data

2. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance: liquid, Colorless

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.

Potential Health Effects**Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

Unlikely to cause skin irritation or injury.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Upper respiratory tract, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), narcosis (dazed or sluggish feeling)

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS
--

Hazardous Components	CAS-No.	Concentration
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8	<=100%

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

4. FIRST AID MEASURES**Eyes**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons

Precautions for fire-fighting

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Forms peroxides of unknown stability. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIA

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

7. HANDLING AND STORAGE**Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

DIPROPYLENE GLYCOL MONOMETHYL ETHER		34590-94-8
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	600 mg/m3
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	900 mg/m3
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	600 mg/m3
ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	150 ppm

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES
--

Physical state	liquid
Form	no data available
Colour	Colorless
Odour	ether-like
Boiling point/boiling range	374 °F / 190 °C
Melting point/range	-112 °F / -80 °C
Sublimation point	no data available
pH	no data available
Flash point	184.98 °F / 84.99 °C Closed Cup
Ignition temperature	no data available
Evaporation rate	0.80 n-Butyl Acetate
Lower explosion limit/Upper explosion limit	1.1 %(V) / 14.0 %(V)
Particle size	no data available
Vapour pressure	0.073 kPa @ 77 °F / 25 °C
Relative vapour density	5.11 AIR=1

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

Density	(+/- 0.01) 0.956 g/cm ³ @ 68.0 °F / 20.0 °C 7.94 lb/gal @ 68 °F / 20 °C
Bulk density	() 1.06 kg/m ³
Water solubility	completely soluble
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
log Pow	-0.35
Autoignition temperature	no data available
Viscosity, dynamic	3.4 mPa.s
Viscosity, kinematic	no data available
Solids in Solution	no data available
Decomposition temperature	no data available
Burning number	no data available
Dust explosion constant	no data available
Minimum ignition energy	no data available

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Heat, flames and sparks. Exposure to air., Do not allow evaporation to dryness.

Incompatible products

Acids, aluminum, Oxygen, salts of strong bases, strong bases, Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrocarbons, Aldehydes, ketones

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

Acute oral toxicity : LD 50 Rat : 5,135 mg/kg**Acute inhalation toxicity**

DIPROPYLENE GLYCOL MONOMETHYL ETHER : no data available

Acute dermal toxicity : LD 50 Rabbit:
9.5 g/kg**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**Biodegradability : Result: Readily biodegradable.
Readily biodegradable, according to appropriate
OECD test.**Bioaccumulation**

DIPROPYLENE GLYCOL MONOMETHYL ETHER : no data available

Ecotoxicity effects**Toxicity to fish** : LC50 Pimephales promelas (fathead minnow): (>)
10,000.00 mg/l Method: No information available.**Toxicity to daphnia and other aquatic invertebrates.** : Daphnia magna (Water flea): 1.91 mg/l Method: No
information available.**Toxicity to algae**DIPROPYLENE GLYCOL MONOMETHYL ETHER : 96 h Growth inhibition Green algae (Selenastrum
capricornutum): > 969.00 mg/l**Toxicity to bacteria**

DIPROPYLENE GLYCOL MONOMETHYL ETHER : no data available

Biochemical Oxygen Demand (BOD)

DIPROPYLENE GLYCOL MONOMETHYL ETHER : no data available

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

GLYCOL ETHER DP-M

Version: 1.8

Chemical Oxygen Demand (COD)

DIPROPYLENE GLYCOL MONOMETHYL ETHER : 2.02 mg/g

Additional ecological information

DIPROPYLENE GLYCOL MONOMETHYL ETHER : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
-----------	----------------------	---------------	--------------------	---------------	-----------------------------

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS



SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

Version: 1.8

GLYCOL ETHER DP-M

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
--	--

SARA Hazard Classification

Fire Hazard

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

New Jersey RTK Label Information

DIPROPYLENE GLYCOL MONOMETHYL ETHER

34590-94-8

Pennsylvania RTK Label Information

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 8/25/2011

Version: 1.8

GLYCOL ETHER DP-M

DIPROPYLENE GLYCOL MONOMETHYL ETHER

34590-94-8

Notification status

Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
US. Toxic Substances Control Act	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
Japan. Industrial Safety & Health Law (ISHL) List	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)

	HMIS	NFPA
Health	1	0
Flammability	2	2
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.