

# SAFETY DATA SHEET

Revision Date 10/14/2015 REVISION NUMBER: 1

## IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name MID-COOL DMIE-P

Other means of identification

Product code 119770 Synonyms NONE

Recommended use of the chemical and restrictions on use
Recommended Use Heat transfer medium.
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address Importer

See Distributor information.

Rochester Midland Limited
5353 John Lucas Drive

Suite 103

Burlington, ON L7L 6G5

Canada

**Distributor** 

Rochester Midland Corporation 155 Paragon Drive Rochester, New York 14624 USA

Emergency telephone number

**EMERGENCY TELEPHONE** INFOTRAC: 1-800-535-5053

OUTSIDE U.S.: +1-352-323-3500

CANUTEC: 613-996-6666

## 2. HAZARDS IDENTIFICATION

## Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) This chemical is considered hazardous by the WHMIS 2015 Hazardous Products Regulation.

Acute toxicity - Oral Category 4

Label elements

**Emergency Overview** 

WARNING

Hazard statements Harmful if swallowed

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Appearance Clear, Colorless

Physical state Liquid

**Odor** Odorless

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

## **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

No information available Other Information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION	CAS No.	%	TRADE SECRET
Ethylene glycol	107-21-1	45 - 60	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

## First aid measures

General advice Call a POISON CENTER or doctor/physician if you feel unwell.

Eye contact IF IN EYES: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and

upper eyelids. Consult a physician.

**Skin contact** IF ON SKIN: Wash with soap and water.

**Inhalation** IF INHALED: Remove to fresh air.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

## Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

## Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

## Suitable extinguishing media

Carbon dioxide (CO2). Dry chemical. Water spray (fog).

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon oxides. Aldehydes.

## **Explosion data**

Sensitivity to Mechanical Impact NONE.
Sensitivity to Static Discharge NONE.

## 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.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal

Protection. Evacuate personnel to safe areas.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional ecological information. Keep out of drains, sewers, streams,

or other bodies of water.

## Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling Wash thoroughly after handling. Emptied containers may retain hazardous properties. Do

not cut, puncture or weld on or near the container.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

electricity).

Incompatible materials Alkali metals. Strong acids, bases and oxidizing agents. Sulfur and sulfite compounds.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

Exposure Guidelines

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PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol	Ceiling: 100 mg/m³ aerosol	(vacated) Ceiling: 50 ppm	-
107-21-1	only	(vacated) Ceiling: 125 mg/m <sup>3</sup>	

### **Appropriate engineering controls**

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**ENGINEERING CONTROLS** Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Safety glasses are recommended to minimize eye contact.

**Skin and body protection**Chemical resistant gloves are recommended to minimize skin contact. Appropriate

protective clothing as needed to prevent skin contact. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this

product.

**RESPIRATORY PROTECTION** None normally required. NIOSH approved respirator if spray mist in air causes irritation.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Liquid

AppearanceClear, ColorlessOdorOdorless

ColorColorlessOdor thresholdNo information available

Property Values Remarks • Method

**pH** 8

Melting point/freezing point

Boiling point / boiling range
Flash point

Evaporation rate
Flammability (solid, gas)

-30 °C / -22 °F

192.78 °C / 379 °F

111 °C / 232 °F

No information available

No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information availableVapor pressureNo information available

Vapor density 2.14 Specific gravity 1.055

Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** 398 °C / 748 °F **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available Oxidizing properties No information available

**Other Information** 

Softening point No information available VOC (EPA METH.24) (G/L): No information available

Density

Bulk density

No information available
No information available
No information available

## 10. STABILITY AND REACTIVITY

REACTIVITY

No data available

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#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **CONDITIONS TO AVOID**

Heat, flames and sparks.

#### Incompatible materials

Alkali metals. Strong acids, bases and oxidizing agents. Sulfur and sulfite compounds.

## **Hazardous Decomposition Products**

Oxides of Carbon.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Product Information Harmful if swallowed.

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** May cause slight irritation.

**Skin contact** Prolonged contact may lead to irritation and dermatitis.

**Ingestion** Harmful if swallowed.

PRODUCT COMPOSITION	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol	= 4000 mg/kg (Rat)	-	-
107-21-1			

## Information on toxicological effects

**Symptoms** No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.Reproductive ToxicityNo information available.STOT - single exposureNo information available.STOT - repeated exposureNo information available.Aspiration hazardNo information available.

## Numerical measures of toxicity - Product Information

## The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 952 mg/kg

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

0.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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PRODUCT COMPOSITION	Algae/aquatic plants	Fish	Crustacea

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Euri III	0500 40000 001	40000 00 L D	40000 40 L D . L .
Ethylene glycol	6500 - 13000: 96 h	16000: 96 h Poecilia	46300: 48 h Daphnia magna
107-21-1	Pseudokirchneriella	reticulata mg/L LC50 static	mg/L EC50
	subcapitata mg/L EC50	41000: 96 h Oncorhynchus	
		mykiss mg/L LC50 14 - 18:	
		96 h Oncorhynchus mykiss	
		mL/L LC50 static 27540: 96	
		h Lepomis macrochirus mg/L	
		LC50 static 40761: 96 h	
		Oncorhynchus mykiss mg/L	
		LC50 static 40000 - 60000:	
		96 h Pimephales promelas	
		mg/L LC50 static	

## Persistence and degradability

No information available.

## **Bioaccumulation**

No information available.

PRODUCT COMPOSITION	Partition coefficient
Ethylene glycol	-1.93
107-21-1	

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

## 14. TRANSPORT INFORMATION

**DEPT. OF TRANSPORTATION** 

Proper shipping name Not Regulated by DOT

**TDG** 

Not Regulated

## 15. REGULATORY INFORMATION

International Inventories

Complies **TSCA** Complies DSL/NDSL Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC KECL** Complies **PICCS** Complies Complies **AICS** 

#### 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 Chemical Substances/European 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

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

PRODUCT COMPOSITION	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	1.0

## SARA 311/312 Hazard Categories

ACUTE HEALTH HAZARD

CHRONIC HEALTH HAZARD

FIRE HAZARD

Sudden release of pressure hazard

REACTIVE HAZARD

No

#### **CWA (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)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

PRODUCT COMPOSITION	Hazardous Substances RQs (in LBS)	U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
Ethylene glycol 107-21-1	5000	

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

## U.S. State Right-to-Know Regulations

PRODUCT COMPOSITION	NJRTK:	MARTK:	PARTK:
Ethylene glycol		Listed	Listed
107-21-1			

#### **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

## **16. OTHER INFORMATION**

#### NFPA

Health hazards 2 Flammability 1

Instability 0

**Physical and Chemical Properties -**

**HMIS** 

Health hazards 2

119770 MID-COOL DMIE-P

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Flammability 1 Physical hazards 0 Personal protection B

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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.

\*\*\* END OF SDS \*\*\*