



SAFETY DATA SHEET

Revision Date 08/20/2015

REVISION NUMBER: 1

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

Product identifier

Product name MID-COOL DMIP

Other means of identification

Product code 119771

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

See Distributor information.

Importer

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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)
This chemical is not considered hazardous by the WHMIS 2015 Hazardous Products Regulation.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance White

Physical state Liquid

Odor No information available

Hazards not otherwise classified (HNOC)

No information available

Other Information**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| PRODUCT COMPOSITION | CAS No. | % | TRADE SECRET |
|---------------------|---------|---------|--------------|
| Propylene glycol | 57-55-6 | 49 - 60 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURESFirst aid measures

| | |
|-----------------------|--|
| General advice | No hazards which require special first aid measures. |
| 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: Clean mouth with water and drink afterwards plenty of water. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---------------------------|
| Symptoms | No information available. |
|-----------------|---------------------------|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURESSuitable extinguishing media

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

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon oxides.

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. Move containers from fire area if you can do it without risk. Cool exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURESPersonal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|--|
| Personal precautions | Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection. |
|-----------------------------|--|

Environmental precautions

Environmental precautions Keep out of drains, sewers, streams, or other bodies of water. See Section 12 for additional ecological information.

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 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not breathe mist or vapors. Use only with adequate ventilation. Avoid contact with skin, eyes or clothing. All equipment used when handling the product must be grounded. Never pierce, drill, grind, cut, saw or weld any empty container. Use personal protection recommended in Section 8. Wash thoroughly after handling. Wash contaminated clothing before reuse.

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 Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

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 Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.

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 | | |
| Appearance | White | Odor | No information available |
| Color | White | Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-------------------------------|--------------------------|--------------------------|
| pH | 8 | No information available |
| Melting point/freezing point | 100 °C / 212 °F | |
| Boiling point / boiling range | 99 °C / 210 °F | |
| Flash point | No information available | |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability limit: | 12.5% | |
| Lower flammability limit: | 2.6% | |
| Vapor pressure | No information available | |
| Vapor density | < 1 | |
| Specific gravity | 1.03 | |
| Water solubility | No information available | |
| Solubility in other solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition temperature | 371 °C / 700 °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 | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

REACTIVITY

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

CONDITIONS TO AVOID

Extremes of temperature and direct sunlight. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Oxides of Carbon. Aldehydes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available.

Inhalation May cause irritation of respiratory tract.

Eye contact May cause slight irritation.

Skin contact Prolonged contact may lead to irritation and dermatitis.

Ingestion Large amounts may cause irritation, nausea, diarrhea.

| PRODUCT COMPOSITION | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------|-----------------------|--------------------------|-----------------|
| Propylene glycol 57-55-6 | = 20000 mg/kg (Rat) | = 20800 mg/kg (Rabbit) | - |

Information on toxicological effects

Symptoms No information available.

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

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 36364 mg/kg
 ATEmix (dermal) 37818 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

| PRODUCT COMPOSITION | Algae/aquatic plants | Fish | Crustacea |
|-----------------------------|---|---|--|
| Propylene glycol 57-55-6 | 19000: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51600: 96 h Oncorhynchus mykiss mg/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 | 1000: 48 h Daphnia magna mg/L EC50 Static |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

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**

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

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 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 | No |
| CHRONIC HEALTH HAZARD | No |
| FIRE HAZARD | No |
| Sudden release of pressure hazard | No |
| 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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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: |
|-----------------------------|--------|--------|--------|
| Propylene glycol 57-55-6 | | | Listed |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION**NFPA**

Health hazards 1

Flammability 1

Instability 0

Physical and Chemical Properties -

HMIS

Health hazards 1

Flammability 1

Physical hazards 0

Personal protection B

Revision Date 08/20/2015

Revision Note

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.

*** END OF SDS ***