

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : NO. 5® SUB-ZERO
Product group : Industrial

1.2. Recommended use and restrictions on use

Recommended use : Industrial

1.3. Supplier

Manufacturer

RectorSeal, LLC
2601 Spenwick Drive
Houston, Texas 77055
USA
T (800)-231-3345 or (713)263-8001
www.rectorseal.com

Distributor

RectorSeal, LLC
3255 Wyandotte St E
Windsor, ON , Canada , N8Y 2W3
T (800)-231-3345

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week
Within USA and Canada: 1.800.424.9300
Outside USA and Canada: +1.703.527.3887
(collect calls accepted)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Reproductive toxicity Category 2 H361 Suspected of damaging fertility or the unborn child
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H361 - Suspected of damaging fertility or the unborn child
Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

NO. 5® SUB-ZERO

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

2.4. Unknown acute toxicity (GHS CA)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Diethylene glycol monomethyl ether	2-(2-methoxyethoxy)ethanol / 2-(beta-methoxyethoxy)ethanol / 3,6-dioxo-1-decanol / beta-methoxy-beta-hydroxydiethyl ether / DEGME / diethylene glycol methyl ether / diethylene glycol monomethyl ether / diglycolmonomethyl ether / ethanol, 2-(2-methoxyethoxy)- / ethylenediglycol monomethyl ether / MDGE / methoxydiglycol / methylcarbitol / methyl diglycol / methyl digol	CAS-No.: 111-77-3	≥ 15.6222	Flam. Liq. 4, H227 Repr. 2, H361

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures general	: If exposed or concerned: Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

NO. 5® SUB-ZERO

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

Wear protective clothing

NO. 5® SUB-ZERO

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Hand protection:				
Neoprene or nitrile rubber gloves				
Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	0.3 mm - 0.6 mm	

Eye protection:
Wear eye protection

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste.
Color	: Gray
Odor	: Mild odor
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: 190 °C
Flash point	: 98 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 0.25 mm Hg @ 20°C
Relative vapor density at 20°C	: > 1
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosion limits	: Not applicable

9.2. Other information

VOC content	: 16 % Theoretical value
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SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

NO. 5® SUB-ZERO

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Diethylene glycol monomethyl ether (111-77-3)	
LD50 oral	7128 mg/kg body weight (Equivalent or similar to OECD 401, Mouse, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	9404 mg/kg body weight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 6696 - 13212
ATE CA (oral)	7128 mg/kg body weight
ATE CA (Dermal)	9404 mg/kg body weight

Skin corrosion/irritation : Not classified

Diethylene glycol monomethyl ether (111-77-3)	
pH	Not relevant, expert judgement

Serious eye damage/irritation : Not classified

Diethylene glycol monomethyl ether (111-77-3)	
pH	Not relevant, expert judgement

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Diethylene glycol monomethyl ether (111-77-3)	
NOAEL (oral,rat,90 days)	900 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
NOAEC (inhalation,rat,vapor,90 days)	> 1.06 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard : Not classified

NO. 5® SUB-ZERO	
Viscosity, kinematic	Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Diethylene glycol monomethyl ether (111-77-3)	
LC50 - Fish [1]	5700 mg/l
EC50 - Crustacea [1]	1192 mg/l
EC50 96h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

NO. 5® SUB-ZERO

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

12.2. Persistence and degradability

Diethylene glycol monomethyl ether (111-77-3)

Not rapidly degradable

Persistence and degradability	Readily biodegradable in water.
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12.3. Bioaccumulative potential

Diethylene glycol monomethyl ether (111-77-3)

Bioaccumulative potential	Not bioaccumulative.
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Partition coefficient n-octanol/water (Log Pow)	-0.47 (Experimental value, Equivalent or similar to OECD 117, 20 °C)
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12.4. Mobility in soil

Diethylene glycol monomethyl ether (111-77-3)

Surface tension	64.5 mN/m (25 °C, 1 g/l)
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Ecology - soil	Low potential for adsorption in soil.
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12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

TDG
Not regulated

NO. 5® SUB-ZERO

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Diethylene glycol monomethyl ether (111-77-3)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL NDSL Flags

Significant New Activity (SNAc) provisions of the DSL Act apply to a substance that was already on the DSL

15.2. International regulations

NO. 5® SUB-ZERO

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Diethylene glycol monomethyl ether (111-77-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

SECTION 16: Other information

Issue date : 09-28-2023

Full text of H-phrases:

H227	Combustible liquid
H361	Suspected of damaging fertility or the unborn child

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.