



SAFETY DATA SHEET

MIRACLE® UNION

Date of Issue : 2nd Jan 2023

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Chemical Name	:	Preparation of a polyether-modified siloxane
Trade Name	:	MIRACLE® UNION
Use of the Substance/Mixture	:	Adjuvant/ Industrial Use
Company Identification	:	G-PLANTER SDN. BHD. (200401005370) No. 11A, Jalan Mahsuri, Kawasan Perindustrian Kluang 1, 86000, Kluang, Johor.
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SECTION 2 – HAZARD IDENTIFICATION

According to Hazardous Product Regulations

Health Hazard

Acute toxicity (Inhalation)	Category 5
Serious eye irritation	Category 2

Label elements

Symbol(s)	:	
Signal word	:	Warning
Hazard statement	:	H319 - Causes serious eye irritation. H332 - Harmful if inhaled.
Precautionary (Prevention)	Statement :	Wash thoroughly after handling. Wear eye protection/face protection.
Precautionary Statement (Response)	:	IF INHALED: Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Other hazards	:	None known



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SECTION 3 – COMPOSITION /INFORMATION ON INGREDIENTS

Chemical name:

Preparation of a polyether-modified siloxane

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Poly(oxy-1,2-ethanediyl), a-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-		67674-67-3	>=10 - <20%
Poly(oxy-1,2-ethanediyl), a-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-		67674-67-3	16,575%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4 – FIRST AID MEASURES

Description on first aid measures

- General advice : Remove soiled or soaked clothing immediately.
- Inhalation : Ensure supply of fresh air. In the event of symptoms take medical treatment.
- Skin contact : In case of contact with skin wash off with soap and water. Consult a doctor if skin irritation persists.
- Eye contact : In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.
- Ingestion : Thoroughly clean the mouth with water Do not induce vomiting. Call for medical advice, show the container or the label.

Personal Protection for First-aid Responders:

- : Do not inhale explosion and/or combustion gases, Self-contained breathing apparatus.



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Most important symptoms/effects, acute and delayed

Symptoms : No information is on file to date regarding acute and/or delayed post- exposure symptoms and effects.

Hazards : No data available.

Indication of immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

General Fire Hazards

Collect contaminated firefighting water separately, must not be discharged into the drains.

Suitable (and unsuitable) extinguishing media : Foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: Full water jet

Specific hazards arising from the chemical: In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide - Nitrogen oxides (NOx) Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Keep away from sources of ignition - no smoking. Take action to prevent static discharges. Cool endangered containers by water spray.

Special protective equipment for fire-fighters: Do not inhale explosion and/or combustion gases
Self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Do not allow to enter drains or waterways. Do not



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Methods and material for containment cleaning up : discharge into the subsoil/soil.
: Take up with absorbent material (e.g sand, Kieselguhr, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

General protective measures : Avoid contact with eyes and skin. Do not inhale gases/ vapours/ aerosols. Wear respiratory protection when spraying. Provide good ventilation of working area (local exhaust ventilation if necessary).

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, well-ventilated place. Protect from freezing.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits : None of the components have assigned exposure limits. Observe national threshold limit values.
Biological Limit Values : Observe national threshold limit values.

Appropriate Engineering Controls : No data available.

Individual protection measures, such as personal protective equipment

General information : No data available.

Eye/face protection : Goggles with side pieces

Skin Protection

Hand Protection : Additional Information: PVC gloves

Other : Protective clothing

Respiratory Protection : In case of formation of vapours/aerosols: Short term: filter apparatus, Filter A-P2

Hygiene measures : Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately. Use barrier skin cream.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: : Liquid
Form : Liquid
Color : White
Odor : Specific to the product



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Odor Threshold	:	Not measured
pH	:	6-8
Freezing point	:	Not measured
Boiling Point	:	Not measured
Flash Point	:	Not applicable
Evaporation rate	:	Not measured
Flammability (solid, gas)	:	No data available
Flammability Limit - Upper (%)	:	Not measured
Flammability Limit - Lower (%):	:	Not measured
Vapor pressure	:	Not measured
Vapor density (air=1)	:	Not measured
Density	:	1,032 g/cm ³ (25 °C) (DIN 51757)
Relative density	:	No data available
Solubility(ies)		
Solubility in Water	:	Soluble
Solubility (other)	:	Not measured
Partition coefficient (n-octanol/water)	:	Not measured
Autoignition Temperature	:	Not measured
Decomposition Temperature	:	Not measured
Kinematic viscosity	:	No data available
Dynamic viscosity	:	approx. 450 mPa.s (25 °C, DIN 53015 (Höppler))
Explosive properties	:	Not measured
Oxidizing properties	:	Not measured
Other information		
Dust Explosion Limit, Upper	:	Not measured
Dust Explosion Limit, Lower	:	Not measured
Minimum ignition temperature	:	Not measured
Metal Corrosion	:	Not measured
Self Ignition Temperature	:	Not measured

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

See section "Possibility of hazardous reactions"

Chemical stability

The product is stable under normal conditions.

Possibility of hazardous reactions

No hazardous reactions with proper storage and handling.

Conditions to avoid

None with proper storage and handling.



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Incompatible materials

Unknown

Hazardous decomposition products

None with proper storage and handling.

SECTION 11 – TOXICOLOGY INFORMATION

Information on likely routes of exposure

- Inhalation** : Relevant route of exposure. Information on effects are given below.
- Skin Contact** : Relevant route of exposure. Information on effects are given below
- Eye contact** : Relevant route of exposure. Information on effects are given below.
- Ingestion** : If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No data available
- Skin Contact** : No data available
- Eye contact** : No data available
- Ingestion** : No data available

Information on toxicological effects

Acute toxicity (list all possible routes of exposure) oral

Product: : No data available..

Specified substance(s):

Poly(oxy-1,2-ethanediyl), a-[3-[1,3,3,3-tetramethyl- 1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-

: LD 50 (Rat): > 5.000 mg/kg

Poly(oxy-1,2-ethanediyl), a-[3-[1,3,3,3-tetramethyl- 1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-

: LD 50 (Rat): > 5.000 mg/kg

Dermal

Product : No data available.No data available

Specified substance(s): : LD50 (Rat): > 5.000 mg/kg

Poly(oxy-1,2-ethanediyl), a-[3-[1,3,3,3-tetramethyl- 1- [(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-

Poly(oxy-1,2-ethanediyl), a-[3-[1,3,3,3-tetramethyl- 1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-

: LD50 (Rat): > 5.000 mg/kg

Inhalation Product

: Acute toxicity estimate : 6,52 mg/l



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Repeated dose toxicity Product	: No data available
Skin Corrosion/Irritation Product	: No data available
Serious Eye Damage/Eye Irritation Product	: No data available.
Respiratory or Skin Sensitization Product:	: No data available.
Carcinogenicity Product:	: No data available.
Germ Cell Mutagenicity In vitro Product:	: No data available.
In vivo Product:	: No data available.
Reproductive toxicity Product	: No data available.
Specific Target Organ Toxicity - Single Exposure Product:	: No data available.
Specific Target Organ Toxicity - Repeated Exposure Product	: No data available.
Aspiration Hazard Product:	: Not classified
Other effects:	: Proper use provided, no adverse health effects have been observed or have been come to our knowledge. Regulation (EC) No. 1272/2008 Causes serious eye irritation.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	
Acute hazards to the aquatic environment:	
Fish Product	: No data available
Aquatic Invertebrates Product:	: No data available
Chronic hazards to the aquatic environment	
Fish Product	: No data available
Aquatic Invertebrates Product	: No data available
Toxicity to Aquatic Plants Product	: No data available
Persistence and Degradability	
Biodegradation Product	: No data available
BOD/COD Ratio Product:	



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Bioconcentration Factor (BCF) Product:	: No data available
Partition Coefficient n-octanol / water (log Kow) Product	: Log Kow: not measured
Mobility in soil	: No data available
Known or predicted distribution to environmental compartments	
Poly(oxy-1,2-ethanediyl),a-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-	
Known or predicted distribution to environmental compartments	
Poly(oxy-1,2-ethanediyl), a-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-	
Other adverse effects	: Do not discharge product unmonitored into the environment. The product is classified as extremely hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV).

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal methods	: In accordance with local authority regulations, take to special waste incineration plant
Contaminated Packaging:	: If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

SECTION 14 – TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

SECTION 15 – REGULATORY INFORMATION

International regulations

Montreal protocol

Stockholm convention

Rotterdam convention

Kyoto protocol



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SECTION 16 – OTHER INFORMATION

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

-End of SDS-