



SAFETY DATA SHEET

MIRACLE® S240

Date of Issue : 2nd Jan 2023

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

Product Name : Polyethersiloxane
 Trade Name : **MIRACLE® S240**
 Use of the Substance/Mixture : Adjuvant/ Agriculture Use
 Company Identification : **G-PLANTER SDN. BHD. (200401005370)**
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SECTION 2 – HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (Inhalation)	Category 4	H332
Eye irritation	Category 2	H319

2.2 Label elements

Constituent decisive for : Polyether modified trisiloxane; CAS-No.: 134180-76-0
 hazardous -substance
 Symbol(s) :



Signal word : Warning
 Hazard statement : H319 - Causes serious eye irritation.
 H332 - Harmful if inhaled.
 Precautionary Statement (Prevention) : P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear eye protection/ face protection.
 Precautionary Statement (Response) : P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P337 + P313 - If eye irritation persists: Get medical advice/attention.
 Other hazards : None known



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SECTION 3 – COMPOSITION /INFORMATION ON INGREDIENTS

Components	CAS-No.	EC No.	Concentration [%]	Classification
Polyether modified trisiloxane	134180-76-0	603-798-4	>=75 %	Acute Tox., 4, H32, Inhalation Eye Irritation., 2, H 319

SECTION 4 – FIRST AID MEASURES

4.1 Description on first aid measures

- General advice : Remove soiled or soaked clothing immediately.
- Inhalation : If inhaled remove from side of exposure to fresh air, seek medical advice.
- Skin contact : In case of contact with skin wash off with soap and water. In the event of symptoms seek medical advice.
- 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. In the event of symptoms seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Eye irritation

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing : Foam, Carbon dioxide, Dry Powder, Water Spray
- Unsuitable extinguishing : Full water jet
media

5.2 Special hazards arising from the substances or mixture

- In the event of fire the following can be released:
-Carbon monoxide, carbon dioxide, silicon dioxide

5.3 Advice for firefighters

- Do not inhale explosion and / or combustion gases
Use self-contained breathing apparatus



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

- | | | | |
|------------|--|---|--|
| 6.1 | Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment. |
| 6.2 | Environmental precautions | : | Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. |
| 6.3 | Methods and material for containment cleaning up | : | Take up with absorbent material (e.g sand, Kieselguhr, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations. |
| 6.4 | Reference to other sections | : | For further information on exposure monitoring and disposal. See Section 8 and 13. |

SECTION 7 – HANDLING AND STORAGE

- | | | | |
|------------|---|---|---|
| 7.1 | Precautions for safe handling | | |
| | Advice on safe handling | : | No special measures necessary if stored and handled as prescribed. |
| | Hygiene measures | : | Do not eat, drink or smoke when working.
Wash hands before breaks and after work.
Remove soiled or soaked clothing immediately. |
| | General protective measures | : | Avoid contact with eyes and skin. Do not inhale gases/ vapours/ aerosols. |
| 7.2 | Conditions for safe storage, including any incompatibilities | | |
| | Prevention of fire and explosion | | |
| | Information | : | No special measures required. |
| | Storage | | |
| | Information | : | None |
| | Further information on storage conditions | : | Keep container tightly closed and dry |
| 7.3 | Specific end use(s) | | |
| | No further recommendations. | | |

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

- | | | | |
|------------|---------------------------|---|--|
| 8.1 | Control parameters | | |
| | DNEL | : | No DNEL/DMEL values on file. |
| | PNEC | : | No PNEC values on file. |
| 8.2 | Exposure controls | | |
| | Eye protection | : | Safety glasses |
| | Hand protection | : | Glove material : gloves made of nitrile (NBR)
Break through time : > 480 min
Glove thickness : 0.11 mm |
| | Body protection | : | Protective clothing |



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Respiratory protection : In case of formation of vapours/aerosols.
A protective ointment is recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
 Color : Light Yellow
 Odour : No odour
 Melting temperature : Not measured
 Boiling temperature : Not measured
 Flash point : Not measured
 Lower explosion limit : Not measured
 Upper explosion limit : Not measured
 Vapour pressure : Not measured
 Density : 1.0881 g/ml
 Water solubility : Soluble
 pH : 6.8
 Viscosity, dynamic : 0.4 dpas

SECTION 10 – STABILITY AND REACTIVITY

- 10.1 Reactivity**
See section "Possibility of hazardous reactions"
- 10.2 Chemical stability**
The product is stable under normal conditions.
- 10.3 Possibility of hazardous reactions**
No hazardous reactions with proper storage and handling.
- 10.4 Conditions to avoid**
None with proper storage and handling.
- 10.5 Incompatible materials**
Unknown
- 10.6 Hazardous decomposition products**
None with proper storage and handling.

SECTION 11 – TOXICOLOGY INFORMATION

- 11.1 Information on toxicological effects**
- Acute oral toxicity : LD50 Species: rat
 Dose : > 2,000 mg/kg
 Method : OECD Test Guideline 401.
 Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
- Acute inhalation toxicity : LC50.
 Species: Rat



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	Exposure time: 4 h Test atmosphere : Dust/mist Dose: 1.08 mg/l Method: OECD Test Guideline 403 Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Acute dermal toxicity	: LD50 Species: Rat Dose: > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Irritation / corrosion of the skin	: Result : Slight irritant effect – does not require labelling Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Serious eye damage / eye irritation	: Species : Rabbit Result : Strong irritant Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Respiratory / skin sensitization	: Species : Guinea pig Result: Non-sensitizing Classification: Did not cause sensitization on laboratory animals. Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Repeated dose toxicity	: Species : Rat Application Route : Oral: gavage Exposure duration: 28 day Frequency of exposure: daily No observed adverse effect level : 200 mg/kg Method: OECD 407 Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
CMR assessment	
Carcinogenicity	: No data available
Mutagenicity	: In vitro and animal experiments revealed no evidence of potential for hereditary genetic changes.
Teratogenicity	: No data available
Toxicity to reproduction	: No data available
Genotoxicity in vitro	: Chromosome aberration test in vitro Chinese hamster ovary cells Metabolic activation : with or without Result: Non clastogenic Method: OECD 473



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	GLP: yes
	Remarks : The data are derived from the evaluations or test results achieved with the individual substances.
Gentoxicity in vivo	: In vivo micronucleus test Species : Mouse Cell Type: Bone marrow Application Route: intraperitoneal Method: US-EPA-method Result: Negative The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy)
Specific Target Organ Toxicity-Single Exposure	: No data available
Specific Target Organ Toxicity - Repeated exposure	: No data available
Aspiration hazard	: No aspiration toxicity classification
Other information	: Irritant to eyes. Harmful by inhalation.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicology Assessment

12.1	Acute aquatic toxicity	: Contains no substances known to be hazardous to the environment.
	Chronic aquatic toxicity Ordinance	: Labelling not required according to EU-CLP (1272/2008).
12.2	Toxicity	
	Aquatoxicity, fish	: Species : rainbow trout Exposure duration: 96 h LC 50: 2.1 mg/l Method: OECD 203 Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
	Aquatoxicity, invertebrates	: Species : <i>Daphnia magna</i>
	Exposure duration	: 48 h EC50: 1.1 mg/l
	Method	: OECD 202 The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
	Toxicity in microorganisms	: No data available
	Chronic toxicity in fish	: No data available
	Chronic toxicity in aquatic Invertebrates	: No data available



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	Toxicity in organisms which live in the soil	:	No data available
	Toxicity in terrestrial plants	:	No data available
	Toxicity to Above-Ground	:	No data available
12.2	Persistence and degradability		
	Photodegradation	:	No data available
	Biological degradability	:	Aerobic
			> 60 % Exposure duration: 28 d
			Result : Readily biodegradable.
			Method : OECD 301 F GLP: yes
			Remarks : Own study
	Biochemical Oxygen Demand (BOD)	:	No data available
	Chemical Oxygen Demand (COD)	:	No data available
	Relation of BOD/COD	:	No data available
12.3	Bioaccumulative potential		
	Bioaccumulation	:	No data available
12.4	Mobility in soil		
	Environmental distribution	:	No data available
12.5	Results of PBT and vPvB assessment		
	PBT and vPvB assessment	:	No data available
12.6	Other adverse effects		
	General Information	:	The product is considered to be a water pollutant (German law). Do not allow to enter soil, waterways or waste water canal.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods		
	Product	:	With respect to local regulations, e.g. dispose of to waste incineration plant or dispose of to biological sewage treatment plant (after neutralisation and after sufficient dilution).
	Contaminated packaging	:	If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

SECTION 14 – TRANSPORT INFORMATION

Not dangerous according to transport regulations.

14.1	UN number	:	-
14.2	UN proper shipping name	:	-
14.3	Transport haard class(es)	:	-



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- 14.4 Packing group : -
 14.5 Environmental hazards : -
 14.6 Special precautions for user : No

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

- Technical instructions on Air Quality : 5.2.5 (no class)
 Major Accident Hazard Legislation : -
 Water contaminating class (Germany) : Water endangering
 Classification acc. to German law
 Risk classification according to BetrSichV (Germany) : -
 Other regulations : Precautions to be observed for storage of hazardous substances: TRGS 510. "Storage of Hazardous Substances in Movable Containers". Special local regulations must be adhered to when using products containing irritating or corrosive substances. BG Info Sheet M 050 "Activities Involving Hazardous Substances"

SECTION 16 – OTHER INFORMATION

List of references

- Other information : Comply with national laws regulating employee instruction.
Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Acute Tox., 4 , H332	Calculation method
Eye Irrit., 2 , H319	Calculation method

Relevant H phrases from Chapter 3

- H319 : Causes serious eye irritation.
 H332 : Harmful if inhaled

Changes since the last version are highlighted in the margin. This version replaces all previous versions. 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 thirdparty 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



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to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by Inland Waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
Chem G	German Chemicals Act
CMR	Carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	Half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic



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PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	Very persistent, very bioaccumulative
VOC	Volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization

-End of SDS-