Safety Data Sheet (SDS) Compilation Report

Report Number: HGNM21CBB1

Effective Date: 2024/05/30

Sample Name	Glass Water Repellent
Commissioning Unit	Rantiz Technology Co., Ltd.
Manufacturer	--
Sample Composition	Deionized Water: 60.0% ~ 80.0% Synthetic Polymer Components: 5.0% ~ 10.0% Polyvinyl Alcohol: 5.0% ~ 10.0% Modified Silicone Oil: 5.0% ~ 8.0% Sodium Dodecylbenzenesulfonate: 0.1% ~ 0.3%
Design Basis	GB/T 17519-2013, GB/T 16483-2008
Please refer to the attachment of this report for the Safety Data Sheet (SDS).	

1.For the Safety Data Sheet (SDS), please refer to the attachment of this report.
2.This Safety Data Sheet is valid until the implementation of the new standard.
3.The information provided by the applicant is the basis for correctly formulating this Safety Data Sheet. Our company assumes no responsibility for any consequences resulting from incorrect information provided by the applicant.

Safety Data Sheet

Glass Water Repellent

Version: V1.0.0.1
Report Number: HGNM21CBB1
Date of Compilation: May 30, 2024
Date of Revision: May 30, 2024

*Prepared according to GB/T 17519-2013 and GB/T 16483-2008

1 Identification of the chemical and supplier

Product identifier

Product Name	Glass Water Repellent
CAS No.	-
EC No.	-
Molecular Formula	-

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Glass Surface Maintenance;
Uses advised against	Not intended for use as a food additive.

Details of the supplier of the Safety Data Sheet

Name of the company	Rantiz Technology Co., Ltd.
Address of the company	Unit 629, No 1050 Ocean Building, North Dongmen Road, Luohu District, Shenzhen, Guangdong, China
Telephone number	+8615625295552
Fax number	-
E-mail address	-

Emergency phone number

Emergency phone number	+8615625295552

2 Hazards identification

Emergency overview

Based on available data, no known hazards.

Hazard classification according to GHS

GHS Hazard Categories	Not applicable

Label elements

Pictogram	Not applicable
Signal Word	Not applicable

Hazard statements

Hazard Statements	Not applicable

Precautionary statements

◆ Preventive measures

Preventive measures	Not applicable

Accident response

◆ Accident response	Not applicable

◆ Safe storage

Safe storage	Not applicable

◆ Waste disposal

Waste disposal	Not applicable

Hazard description

Physical and chemical hazards	Liquid, soluble in water, usually harmless under normal circumstances.Health Hazards
Inhalation	Inhalation of this substance may cause adverse health effects or respiratory discomfort.
Ingestion	Accidental ingestion of this substance may be harmful to health.
Skin contact	Non-hazardous under normal conditions.
Eye contact	Direct contact with this substance may cause temporary discomfort.

◆ Environmental HazardsReference:

Please refer to Section 12 of the Safety Data Sheet (SDS).

3 Composition/information on ingredients

Substance/Mixture Mixture

Component	CAS No.	EC No.	Concentration (weight percent, %)
Deionized Water	7732-18-5	7732-18-5	60-80
Synthetic polymer component	TradeSecret	TradeSecret	TradeSecret
Polyvinyl alcohol	9002-89-5	9002-89-5	5~10
Modified silicone oil	63148-62-9	63148-62-9	5~8
Sodium dodecylbenzenesulfonate	25155-30-0	25155-30-0	0.1~0.3

4 First aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if fell uncomfortable.
Skin contact	Under normal conditions, there is no hazard. Emergency treatment is not necessary.
Ingestion	Do not give anything by mouth to an unconscious person. Call a doctor immediately.
Inhalation	Move the patient to fresh air immediately. If breathing is difficult, administer oxygen. Seek medical attention immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the hazards of the product and take self-protection measures to protect themselves and prevent the spread of contamination.

Most Important Symptoms and Health Effects

Please refer to Section 11.

Advice for Protecting Rescuers

Remove all sources of ignition and improve ventilation.

Avoid contact with skin and eyes.

Special Advice for Doctors

Treat symptomatically based on observed symptoms.

Be aware that symptoms may be delayed

5 Firefighting measures

Extinguishing media

Suitable extinguishing media	Dry chemical, carbon dioxide, alcohol-resistant foam
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the substance or mixture

1	Liquid and vapor are highly flammable.
2	Vapors are heavier than air and may spread along floors forming explosive mixtures with air at ambient temperatures.
3	Vapors may travel to source of ignition and flash back.
4	Combustion of vapor and liquid may produce carbon monoxide, carbon dioxide and other hazardous gases.

Fire precautions and protective measures

1	As in any fire, wear self-contained breathing apparatus and full protective gear.
2	Cool closed containers exposed to fire with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.
3	As in any fire, wear self-contained breathing apparatus and full protective gear.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapors and contacting with skin and eyes.
3	Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Do not let product enter drains.

Methods and materials for containment and cleaning up

1	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
2	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
3	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7 Handling and storage

Precautions for handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.
4	Keep away from heat/sparks/open flames/ hot surfaces.

Precautions for storage

1	Keep containers tightly closed in a dry, cool and well-ventilated place.
2	Keep away from heat/sparks/open flames/ hot surfaces.
3	Store away from incompatible materials such as strong acid, acid anhydrides, oxidizing agents, reducing agents, alkali metals and other incompatible materials
4	Keep containers tightly closed in a dry, cool and well-ventilated place.

8 Exposure controls/personal protection

Control parameters

- Occupational Exposure limit values

  No information available

- Biological limit values

Biological limit values	No information available

- Monitoring methods

1	GBZ/T 160.48 Determination of hazardous chemicals in workplace alcohol
2	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.

Personal protection equipment

Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	Protective gloves (such as butyl rubber) , approved by EN 374(EU).
Respiratory protection	Use appropriative respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: low boiling organic solvent, Type AX, Brown, conforming to EN371.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots

9 Physical and chemical properties

Physical and chemical properties

Appearance	Milky white liquid
Odor	Light fragrant
Odor threshold	No information available
pH	4-7
Melting point/freezing point	No information available
Initial boiling point and boiling range	100°C
Flash point	Non-flammable
Evaporation rate	No data available
Flammability(solid, gas)	Not applicable
Upper/lower explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Miscible with water, ether, and other organic solvent.
n-octanol/water partition coefficient	Non-flammable
Auto-ignition temperature	Non-flammable
Decomposition temperature	No information available
Viscosity	

10 Stability and reactivity

Stability and reactivity

Reactivity	No information available
Chemical stability	Stable under proper operation and storage conditions
Possibility of hazardous reactions	Risk of explosion with oxidizing agents, halogens, and chlorates ; Exothermic reaction with reducing agents, acids and acid anhydrides ; Generates flammable gases with alkaline metals and alkaline earth metals.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidizing agents, reducing agents, acids, acid anhydrides, alkaline metals, alkaline earth metals and chlorates.
Hazardous decomposition products	Carbon monoxide and formaldehyde.

11 Toxicological information

Acute toxicity

Component	LD_{50}(oral)	LD_{50}(dermal)	LC_{50}(inhalation)
Sodium Dodecyl Benzene Sulfonate	438 mg/kg (rat)	No data available	No data available

Carcinogenicity

Component	IARC Carcinogen Classification	NTP Carcinogen Report
Deionized Water	Not listed	Not listed
Synthetic Polymer Component	Not listed	Not listed
Polyethylene Glycol	Category 3	Not listed
Modified Silicone Oil	Not listed	Not listed
Sodium Dodecyl Benzene Sulfonate	Not listed	Not listed

Others Information

Glass Water Repellent

Skin corrosion/irritation	According to available data, does not meet classification criteria
Serious eye damage/irritation	According to available data, does not meet classification criteria
Respiratory or skin sensitization	According to available data, does not meet classification criteria
Germ cell mutagenicity	According to available data, does not meet classification criteria
Carcinogenicity	According to available data, does not meet classification criteria
Reproductive toxicity	According to available data, does not meet classification criteria
STOT-single exposure	According to available data, does not meet classification criteria
STOT-repeated exposure	According to available data, does not meet classification criteria
Aspiration hazard	According to available data, does not meet classification criteria

12 Ecological information

Toxicity

Component	Fish	Crustaceans	Algae/Aquatic
Sodium Dodecyl Benzene Sulfonate	LC_{50}：4.48g/L （96h） (Lepomis macrochirus)	EC50: 6.84 mg/L (48h)	EC_{50}： 70.3 g/L(96h)

Persistence and degradability	Persistence in Water/Soil: LowPersistence in Air: Low
Bioaccumulative potential	Bioaccumulation: LowRemarks: Log Kow = -1.38
Mobility in soil	Soil Mobility: LowOrganic Soil/Water Partition Coefficient (Koc): 14.3
Results of PBT and vPvB assessment	Methanol does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Even after emptying, packaging may still contain hazardous residues. Keep away from heat and fire sources. If possible, return the packaging to the supplier for recycling.
Disposal recommendations	Refer to guidelines for the disposal of waste chemicals and contaminated packaging.

14 Transport information

Label

Transport Labels	Not applicable.

IMDG-CODE

IMDG-CODE	Not regulated as hazardous goods for transport

ICAO/IATA-DG

IATA-DGR	Not regulated as hazardous goods for transport

UN-ADR

Road Transport	Not regulated as hazardous goods for transport

Other Information

Packaging Method	Package according to the manufacturer's recommended method
Transportation Precautions	The transport vehicle should be equipped with appropriate types and quantities of firefighting equipment and spill emergency handling equipment. Before transportation, check whether the packaging containers are intact and sealed. The transport vehicle should display danger signs and notices according to relevant transportation requirements.

15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZLOC	PICCS	KECI
Glass Water Repellentl	Listed	Listed	Listed	Listed	Listed	Listed	Listed

Chinese chemical inventory (Methanol)

《The Inventory of Existing Chemical Substances in China》	Not Listed
《Highly toxic chemicals directory》	Not Listed
《Dangerous chemicals directory used to manufacure exploder》	Not Listed

《National dangerous wastes directory》 annex A	Not Listed
《Strict limits on the import and export of toxic chemicals directory in China》	Not Listed
《List of Import and Export of Controlled ODS in China》	Not Listed
《List of additives used in food containers and packaging materials in China》	Not Listed

16 Other information

Information on revision

Creation Date	2024/05/30
Revision Date	2024/05/30
Reason for revision	-

Reference

[1]IPCS:The International Chemical Safety Cards (ICSC) ,website: http://www.ilo.org/dyn/icsc/showcard.home
[2]IARC , website: http://www.iarc.fr/
[3]OECD: The Global Portal to Information on Chemical Substances, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
[4]CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
[5]NLM:ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/
[7]U.S. Department of Transportation:ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg
[8]Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS –Chemical Abstracts Service

EINECS - European Inventory of Existing Commercial Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC- China Inventory of Existing Chemical Substances

PC-STEL- Short term exposure limit

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC_{50} - Lethal Concentration 50%

NOEC -No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

BCF - Bioconcentration factor (BCF)

CMR - Carcinogens, mutagens or substances toxic to reproduction

TSCA- United States Toxic Substances Control Act Inventory

DSL - Canadian Domestic Substances List

NZIOC -New Zealand Inventory of Chemicals

KECI- Existing and Evaluated Chemical Substances

PC-TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC –Predicted No Effect Concentration

LD_{50} - Lethal Dose 50%

EC_{50} - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

CAS –Chemical Abstracts Service

EINECS - European Inventory of Existing Commercial Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical

TSCA- United States Toxic Substances Control Act Inventory

DSL - Canadian Domestic Substances List

NZIOC -New Zealand Inventory of Chemicals

Substances

IECSC- China Inventory of Existing Chemical Substances

KECI- Existing and Evaluated Chemical Substances

Disclaimer

This Safety Data Sheet (SDS) was prepared according to GB/T16483 and GB/T17519. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user’ s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.