Safety Data Sheet

Creation Date：2019/01/14 **Revision Date: 2019/01/14**
Report: TJTEST Technology (Shanghai) Co. Ltd.
Report no: SDS NO. T190114024A
HS Code 40021100

PRODUCT：SG168

Page: 9 pages

SECTION 1: IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Trade name	: GURTEX® SG 168
Chemical description	: Single component water-based, waterproof, heat-resistant and anticorrosive paint (Crack Resistant, Heat Insulating Polymer Coating).
Supplier	: ASA New World Trading Pte Ltd.
Address	: 65A Jalan Tenteram, #05-14. Singapore 328958
Tel	: +65 62540798
Fax	: +65 62546119

Emergency telephone number of company and/or of an authorized advisory center：+65 94882793

SECTION 2: HAZARDS IDENTIFICATION

Hazardous mixture	: The product is not dangerous, and it has no hazardous classification.
Label elements	: Hazard pictograms：None.
	: Signal word：None.
Hazard statements	: None.
Precautionary statements	: Prevention: None.
	: Response: None.
	: Storage: None.
	: Disposal: None.
Hazard description	: Physical and chemical hazards
	: This product is normally used without hazard.
Health hazards	: None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical substances

Composition:

Component	CAS No.	EC No.	Concentration (weight percent, %)
Acrylic polymer emulsion	25085-34-1	——	38
Radiation protection material	12004-37-4	234-455-3	10
Titanium dioxide	13463-67-7	236-675-5	20
Calcium carbonate	471-34-1	207-439-9	10
Defoamer	9006-65-9	203-492-7	5
water	7732-18-5	231-791-2	17

SECTION 4: EMERGENCY TREATMENT

4.1. Description of first aid measures

General advice : Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Skin contact : During production, take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feeling uncomfortable.

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feeling uncomfortable.

Inhalation : Under normal use conditions, no adverse effects will occur. If in contact with decomposition products, irritation may occur. Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Intake : Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Facility immediately.

Protecting of first-aiders : Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.2. Indication of any immediate medical attention and special treatment needed

1) Treat symptomatically.

2) Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : This product is not flammable, choose the appropriate extinguishing agent according to the cause of the fire.

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

5.2. Specific hazards arising from the substance or mixture

: No data available.

5.3. Advice for firefighters : As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

: Fight fire from a safe distance, with adequate cover.

: Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 : Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.

6.1.2 : Ensure adequate ventilation. Remove all sources of ignition.

6.1.3 : Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.1.4 : Use personal protective equipment.

6.1.5 : Avoid breathing vapours, mist, gas or dust.

6.2 Environmental precautions

6.2.1 : Prevent further leakage or spillage if safe to do so.

6.2.2 : Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

6.3.1 : Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

6.3.2 : Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.3.3 : Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

.

SECTION 7: HANDING AND STORAGE

7.1 Precautions for handling

7.1.1 : Closed operation, full ventilation.

7.1.2 : Operators must be specially trained to strictly abide by the operating procedures.

7.1.3 : Keep away from fire, heat, and smoking in the workplace.

7.1.4 : Use explosion-proof ventilation systems and equipment.

7.1.5 : Avoid contact with oxidizing agents, reducing agents, and halogens.

7.1.6 : Equipped with the corresponding variety and quantity of fire-fighting equipment.

7.2 Precautions for storage

7.2.1 : Store in a cool, ventilated warehouse.

7.2.2 : Keep away from fire and heat.

7.2.3 : It should be stored separately from oxidants, reducing agents, halogens, etc., and should not be mixed.

7.2.4 : Use explosion-proof lighting and ventilation facilities.

7.2.5 : It is forbidden to use mechanical equipment and tools that are prone to sparks.

7.2.6 : The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 : Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
All components	USA - OSHA	Unspecified	Unspecified	Unspecified	Unspecified
	South Korea	Unspecified	Unspecified	Unspecified	Unspecified
	Ireland	Unspecified	Unspecified	Unspecified	Unspecified
	Germany(AGS)	Unspecified	Unspecified	Unspecified	Unspecified
	Denmark	Unspecified	Unspecified	Unspecified	Unspecified
	Australia	Unspecified	Unspecified	Unspecified	Unspecified

8.1.2 Biological limit values

8.1.2.1 : Biological limit values - No information available

8.1.3 Monitoring methods

8.1.3.1 : EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

8.1.3.2 : BZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

8.2 Engineering controls

8.2.1 : Ensure adequate ventilation, especially in confined areas.

8.2.2 : Ensure that eyewash stations and safety showers are close to the workstation location.

8.2.3 : Use explosion-proof electrical/ventilating/lighting/equipment.

8.2.4 : Set up emergency exit and necessary risk-elimination area.

8.3 Personal protection equipment

General requirement：

Eye protection	: Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	: Wear protective synthetic rubber gloves, passing tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Respiratory protection	: If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full- face respirator with multi-purpose combination (US) or type AXBEK (EN14387) respirator cartridges.
Skin and body protection	: Wear fire/flame resistant/retardant clothing and antistatic boots.
Other protection	: Smoking, eating and drinking are forbidden on the job site. Maintain good hygiene habits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: White liquid.
Odour	: Weak odour.
Odour threshold	: No data available.
PH value	: 8-11.
Melting point/freezing point (°C)	: No data available.
Initial boiling point and boiling range (°C)	: No data available.
Flash point (closed cup, °C)	: ＞70.
Evaporation rate	: No data available.
Flammability (solid or gas)	: Non-Flammable.
Explosion upper/lower limit [%(v/v)]	: No data available.
Vapor pressure (kPa)	: No data available.
Vapor density (air = 1)	: No data available.
Relative density (water = 1)	: 1.05.
Solubility (mg/L)	: No data available.
Octanol/water partition coefficient	: No data available.
Auto-ignition temperature (°C)	: No data available.
Decomposition temperature (°C)	: No data available.
Viscosity	: <500 mPa s (Millipascal Second)
Others: Resistance value	: No data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity : Contact with incompatible materials can cause decomposition or other chemical reactions.

Chemical stability : Stable under the correct conditions of use and storage.

Possibility of hazardous reaction : Reacts violently with oxidants, causing a risk of combustion explosion.

Conditions to avoid : Electrostatic discharge, heat, humidity, etc.

Incompatible materials : Strong oxides, strong acids, strong bases.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Component	LD_{50}(oral)	LD_{50}(Transcutaneous)	LC_{50}(inhalation, 4h)
All components	Not available	Not available	Not available

11.2 Carcinogenicity

Component	IARC	NTP
All components	Not Listed	Not Listed

11.3 Others

Component	Corrosive skin/ irritation	Serious eye damage/irritation	Skin sensitization	Respiratory sensitization	Reproductive toxicity	Specific target organ toxicity - single exposure	Specific target organ toxicity - repeated exposure	Aspiration hazard	Germ cell mutagenicity	Reproductive toxicity
All components	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available	Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Acute aquatic toxicity

Component	Fish	Crustaceans	Algae
All components	Not available	Not available	Not available

12.2 Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae
All components	Not available	Not available	Not available

12.3 Others

Component	Persistence and degradability	Bioaccumulation or bioaccumulation	Soil mobility	Evaluation of PBT and vPvB results
All components	Not available	Not available	Not available	Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal considerations : Recycle as much as possible. If it cannot be recycled, use incineration for disposal. Do not dispose of this product by means of discharge to the sewer.

Waste chemicals : Contaminated packaging: Residual hazards may still exist after the contents of the packaging are emptied. Keep away from heat and sources of ignition. If possible, recycle them to the supplier for recycling.

SECTION 14: TRANSPORT INFORMATION

United Nations Dangerous Goods Number (UN No.) : The product is not dangerous.
UN proper shipping name : None
UN Risk Classification : None
Packing Category : None
Packaging label : None
Marine Pollutants (Yes/No) : No
Packing method : Pack according to the manufacturer's recommendations, for example: open drums. Ampoule bottle outside the ordinary wooden box. Threaded glass bottles, iron lids, glass bottles, plastic bottles or metal drums (cans) outside the ordinary wooden boxes.

Transportation Note : It is strictly prohibited to mix and transport with acids, alkalis, oxidants, foods and food additives. The exhaust pipe of the vehicle carrying this item must be equipped with a fire-retardant device, which prohibits the use of mechanical equipment and tools that generate sparks. Avoid exposure, rain, and high temperature during transportation. The tank used for transportation shall have a grounding chain, and a hole partition may be arranged in the tank to reduce the static electricity generated by the vibration.

: It is strictly forbidden to use wooden boats and cement ships for bulk transportation. Avoid exposure, rain, and high temperature during transportation. Transportation vehicles shall be equipped with fire fighting equipment and emergency response treatment equipment of corresponding types and quantities. Before shipping, check whether the packaging container is complete and sealed. On the transportation means, hazard signs and announcements should be posted in accordance with the relevant transportation requirements.

SECTION 15: REGULATORY INFORMATION

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
Acrylic polymer emulsion	Not Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Radiation protection material	Listed	Listed	Not Listed	Listed	Listed	Not Listed	Listed	Not Listed
Titanium dioxide	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Calcium carbonate	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Defoamer	Not Listed	Not Listed	Listed	Listed	Listed	Listed	Not Listed	Listed
water	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

(EINECS) European Inventory of Existing Commercial Chemical Substances
(TSCA) United States Toxic Substances Control Act Inventory
(DSL) Canadian Domestic Substances List
(IECSC) China Inventory of Existing Chemical Substances
(NZIoC) New Zealand Inventory of Chemicals
(PICCS) Philippines Inventory of Chemicals and Chemical Substances

SECTION 16: OTHER INFORMATION

(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/hazat/library/erg.
(8) Germany GESTIS-database on hazard substance Website: http://gestis-en.itrust.de/.

Other Abbreviations and acronyms

CAS : Chemical Abstracts Service PC-STEL- Short term exposure limit
DNEL : Derived No Effect Level RPE - Respiratory Protective Equipment
LC50 : Lethal Concentration 50% NOEC -No Observed Effect Concentration
PBT : Persistent, Bio accumulative, Toxic BCF - Bioconcentration factor (BCF)
IMDG : International Maritime Dangerous Goods UN - The United Nations
NFPA : National Fire Protection Association
CMR : Carcinogens, mutagens or substances toxic to reproduction
PC-TWA : Time Weighted Average ARC - International Agency for Research on Cancer
PNEC : Predicted No Effect Concentration LD50 - Lethal Dose 50%
EC50 : Effective Concentration 50%
POW : Partition coefficient Octanol: Water vPvB - very Persistent, very Bio accumulative
ICAO/IATA : International Civil Aviation Organization/International Air Transportation Association
ACGIH : American Conference of Governmental Industrial Hygienists
OECD : Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). 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 independent judgment of suitability of this information for their 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.