

物質安全資料表(MSDS)

1. Identification of Substance /Preparation and Company

- 1.1 Product Name : Antibacterial agent 5708TN
- 1.2 Another Name : -
- 1.3 Recommend Usage : For polyester, nylon and cotton have a durable antibacterial performance to Gram-negative bacteria, Gram-positive bacteria, and mold.
- 1.4 Information of Manufacturer or Supplier :
GRACESS INTERNATIONAL CO., LTD. /
29F-3, No. 86, Sec. 1, Beixin Rd., Xindian Dist., New Taipei City 231003, Taiwan /+886-2-2673-3998
- 1.5 Emergency Phone/Fax : +886-2-2673-3998/+886-2-2673-3995

2.Hazard Identification Data

- 2.1 Hazard Classification : -
- 2.2 Label : -
Symbol : -
Caution : -
Hazard Warning : -
Acute Symptom :
Eye : May cause irreversible harm and burn.
Skin : Intermediate irritation.
Inhalation : Vapor may irritate the nose and throat. Overexposure to vapor may cause sleepiness.
Swallow : Mentioned in following
Long term exposure symptoms:
Skin : Serious irritation. May cause harm to genital and kidney
Inhalation : Over vapor inhalation may cause blindness and injuries to the nervous system, lung, kidney, genital and adrenal.
Swallow : Methanol included. May cause blindness or death.
- 2.3 Other Hazards : -

3. Composition/ Information of Ingredients

Mixture : -		
Chemical name	CAS Number	%
Organic silicone quaternary ammonium salts	-	-
Methanol	67-56-1	-

4. First Aid Measure

- 4.1 Description of first aid measures :
Eyes: Flush eyes with plenty of water for 10 minutes and get medical attention.
Skin: Take off the contaminated clothes and footwear. Flush with water and soap for at least 10 minutes.
Inhalation: Move to fresh air. Oxygen therapy if dyspnea. Artificial breathing if breathing stops. And get medical attention immediately.
Ingestion: Get medical attention at once.
- 4.2 Most important symptoms and effects : Irritating to eyes, stabbing, swelling.
- 4.3 Protection of first-aid person : Wear protective goggles, gloves, and mask.

4.4 Suggestion to doctors : Treat as methanol toxicosis.

5. Fire fighting measure

- 5.1 Extinguishing Media : Use dry Chemicals, foam, and mist water during a huge fire. Use CO₂, dry chemicals, or mist water during a small fire.
- 5.2 Possible danger during fire distinguishing : As vapor is heavier than air, may trigger spontaneous combustion and flashover. Static may cause combustion, should contact with the ground to avoid static, or store in an inert gas environment.
- 5.3 Special Fire Fighting Process : Use mist water to cool down the burned container. According to the emergency plan to decide if isolates the fire area.
- 5.4 Special protective equipment to firefighters : Wear self-contained breathing apparatus and protective goggles.
- 5.5 Hazard decomposition substance : CO₂ or other incompletely burned carbon compounds, silica, formaldehyde, nitrogen oxides, chloride.

6. Accidental release measure

- 6.1 Personal precaution : Avoid contacting eyes and skin. Do not inhale vapor and keep container sealed.
- 6.2 Environment attention : Use sands or soil to collect the leakage and avoid contaminating the environment. Prevent the leakage from permeating into sewer and groundwater.
- 6.3 Clean Method :
According to local emergency plan to decide if evacuate or separate the area. Please follow all the personal protection apparatus listed in this MSDS. Move the waste to suitable container. Use suitable absorbent to clean the waste. Clean the leakage area and use vapor, solvents and detergents to clean the waste completely. Properly dispose of the absorbent and cleaners which complies with local regulation.

7. Handling and storage

- 7.1 Handling : Wash hands after work. Do not contact skin or clothes.
- 7.2 Storage : Keep ventilated, and the container sealed. Away from fire. Static will accumulate and may ignite vapors. Prevent possible fire by earth wire adoption and inert gases protection. Keep the container closed and away from sparks, and flame.

8. Exposure controls/personal protection

- 8.1 Engineering Control : Partial Ventilation facility:
General Ventilation Facility : suggested
- 8.2 Exposure Limit Value :
The amount of eight hours daily average allowable concentration / short time average allowable concentration / maximum allowable concentration : —
- 8.3 Personal Protection :
Respiratory System Protection : There is no need to wear protection apparatus.
Eye Protection : Wear chemical safety goggles.
Skin and body protection : Flush before dining or after work.
Hand Protection : unnecessary
- 8.4 Hygiene Procedure : Washing after contact, especially before dining or smoking.

9. Physical and chemical properties

- Appearance : liquid
- Solid content (%) : -

• Color :	transparent to light yellow	• Ionicity :	Cationic
• Odor :	-	• PH value :	7.0-8.0
• Flash Point (Closed cup) :	11°C	• Boiling Point/Boiling Range :	>64°C
• Flammability(Solid, Gas) :	-	• Explosion limits :	-
• Decomposition temperature :	-	• Vapor density :	-
• Autoignition temperature :	-	• Solubility :	soluble in water
• Vapor pressure (25°C) :	-	• Chemical reactivity :	-
• Proportion :	-	• Evaporation Rate :	-

10. Stability and Reactivity

10.1 Stability : Stable.

10.2 Possibility of hazardous reactions : -

10.3 Conditions to avoid : Heat, flame and other source of ignition.

10.4 Materials to avoid : Oxidizing Agents.

10.5 Hazardous decomposition products : CO₂ and incompletely burned carbon dioxide, silicon dioxide, methanol and hydrogen.

11. Toxicological Information

11.1 Symptoms : -

11.2 Chronic toxicity/ long-term toxicity : -

12. Ecological Information

12.1 Ecological toxicity : -

12.2 Persistence and degradability : -

12.3 Biodegradability : Siloxanes are degraded in the soil.

12.4 Fish toxicity test : -

12.5 Mobility in soil: By sedimentation or bonding to sewage and sludge, the siloxane may separate from water.

12.6 Other adverse effects:-

13. Disposal Considerations

13.1 RCRA : 40CFR261

13.2 Characteristics of Hazardous Waste.

13.3 Characteristic of ignitability : X

13.4 Characteristic of corrosivity : -

13.5 Characteristic of reactivity : -

13.6 TCLP : -

14. Transport Information

14.1 UN No. : UN1993

14.2 Level : 3

14.3 Proper shipping Name : -

14.4 Packing group : II

14.5 Special transportation information : combustible

14.6 Marine Pollutant (Yes/No) : Yes

15. Regulatory Information

TSCA: All chemical substances in the material are included on or exempted from listing on the TSCA.

EPA SARA Title III :

Section 302 extremely hazardous substances : none

Section 304 hazardous substances : methanol

Section 312 Harmful rating

Immediate(Acute) : yes

Delayed(Chronic) : yes

Flammability: yes

Pressure: none

Reactivity: None

Section 313 Toxic Chemical : methanol

16. Other Information

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LIMITED WARRANTY INFORMATION – PLEASE READ BEFORE ANY APPLICATION:

- The data presented in this brochure are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt.
- We reserve the right to alter product constants within the scope of technical progress or new developments.
- The recommendations made in this brochure should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used.
- The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights or patents and, if necessary, clarifying the position.
- Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.
- We disclaim any responsibility for any dispute regarding product quality between agent and end user.
- Our sole warranty is that our products will meet the sales specifications in effect at the time of shipment.