Safety Data Sheet

Product Name: PEG 6000

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1. Identification of the substance/preparation and of the company/undertaking

Product Name

PEG 6000, Polyethylene glycol 6000

Identified uses

A partial list of examples include pharmaceutical products, personal care products, automotive products, household products, packaging products, petroleum chemicals, plastics, inks, coatings, adhesives, chemical intermediates, rubber processing, lubricants, metalworking fluids, mold release agents, ceramics, and wood treating. CAUTION! For food, feed, drug or cosmetic applications.

COMPANY IDENTIFICATION

ANSHAN AQUASHINE TRADING CO.,LTD NO.2-33-280,JIE FANG ROAD,TIEXI DISTRICT ANSHAN CITY, LIAONING PROVINCE CHINA

Telephone Number :+86 15842234906 **Emergency Telephone**: +86 0412 8222822

2. Composition/information on ingredients							
Component	Amount	Classification:	CAS #	EC #			
Polyethylene glycol	≥99.0 %	Not classified .	25322-68-3	Polymer			

3. Hazards Identification

This product is not classified as dangerous according to EC criteria.

4. First-aid measures

Description of first aid measures

General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician .

Skin Contact: Wash skin with plenty of water.

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: No emergency medical treatment necessary.

Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Absorption may be promoted by damaged skin. J Pharm Sci. 1985 Oct;74(10):1062 -6; Burns Incl Therm Inj 1982 Sep;9(1):49-52. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire Fighting Measures

Suitable extinguishing media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam . Alcohol resistant foams (ATC type) are preferred . General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Extinguishing M edia to Avoid: Do not use direct water stream . May spread fire.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation . Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream . May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Special Protective Equipment for Firefighters: Wear positive- pressure self- contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers,

boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

7. Handling and Storage

Handling

General Handling: See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION. **Other Precautions:** Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

Storage

Store in original container. Use product promptly after opening . Avoid prolonged exposure to heat and air. Store in the following material(s): Stainless steel. Polypropylene. Polyethylene-lined container. Teflon . Glass-lined container. Plasite 3066 lined container. Plasite 3070 lined container. 316 stainless steel.

8. Exposure Controls / Personal Protection						
Exposure Limits						
Component	List	Туре	Value			
Polyethylene glycol	AIHA WEEL	TWA Particulate.	10 mg/m3			

Personal Protection

Eye/ Face Protection: Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent .

Skin Protection: When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task.

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. W hen prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended . NOTICE:

The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/ specifications provided by the glove supplier.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating .

Engineering Controls

Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

9. Physical and Chemical Properties

Appearance Physical State	Paraffin- like solid, occurring as flakes or		
Color	White		
Odor	Mild		
Odor T hreshold	No test data available		
рн	4.0-7.0 ASTM E70 (5% aqueous solution)		
Viscosity	185-250mm²/s		
Freezing Point	55 - 61°C		
Boiling Point (760 mmHg)	> 200 °C Calculated Decomposes .		
Flash Point - Closed C up	200°C - 230°C <i>ASTM D93</i>		
Flash Point - Open C up	290°C-240°CASTM D92		
Evaporation Rate (Butyl	No test data available		
Acetate = 1)			
Flammability (solid, gas)	Not applicable to liquids		
Flammable Limits In Air	Lower: No test data available		
	Upper: No test data available		

10. Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Thermally stable at typical use temperatures.

Possibility of hazardous reactions

Polymerization will not occur.

powders

Conditions to Avoid: Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems.

Incompatible Materials: Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Alcohols. Ethers. Carbon dioxide. Carboxylic acids. Polymer fragments.

11. Toxicological Information

Acute Toxicity

Ingestion

Very low toxicity if swallowed . Harmful effects not anticipated from swallowing small amounts. LD50, Rat > 10,000 mg/kg

Aspiration hazard

Based on physical properties , not likely to be an aspiration hazard .

Dermal

Prolonged skin contact is unlikely to result in absorption of harmful amounts. Prolonged/repeated exposure to damaged skin (as in burn patients) may result in absorption of toxic amounts.

LD50 , Rabbit > 20 ,000 mg/kg

Inhalation

At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. For respiratory irritation and narcotic effects: No relevant data found .

Typical for this family of materials. No deaths occurred at this concentration . LC50 , 6 h, Aerosol, Rat > 2 .5 mg/l

Eye damage/ eye irritation

May cause slight temporary eye irritation . Corneal injury is unlikely.

Skin corrosion/ irritation

Prolonged contact may cause slight skin irritation with local redness .

Sensitization

Skin

For this family of materials: Did not cause allergic skin reactions when tested in humans. For this family of materials, sensitization studies done in guinea pigs have been negative. **Respiratory**

No relevant data found .

Repeated Dose Toxicity

Recent findings of kidney failure and death in burn patients, as well as some studies using animal burn models, suggest that polyethylene glycol may have been a factor. The use of topical applications containing this material may not be appropriate in severely burned patients or individuals with impaired renal function. Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Chronic Toxicity and Carcinogenicity

Similar material(s) did not cause cancer in laboratory animals .

Developmental Toxicity

For similar material(s): Did not cause birth defects in laboratory animals .

Reproductive Toxicity

For similar material(s): In animal studies, did not interfere with reproduction .

Genetic Toxicology

For similar material(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

12. Ecological Information

Toxicity

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

 Fish Acute & Prolonged Toxicity

 LC50, fathead minnow (P imephales promelas), 96 h: > 10,000 mg/l

 Aquatic
 Invertebrate
 Acute
 Toxicity

 LC50, water flea Daphnia magna, 48 h: > 10,000 mg/l

 Aquatic
 Plant
 Toxicity

 EbC50, diatom Skeletonema costatum, biomass growth inhibition, 3 d: 14,853 mg/l

Persistence and Degradability

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

OECD Biodegradation Tests:

Biodegradation	Exposure T ime	Method	10 Day Window
90 %	28 d	OECD 301F Test	pass
55 %	28 d	OECD 306 Test	Not applicable

Bioaccumulative potential

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient, n-octanol/water (log Pow):** < 2 .25 Estimated .

Mobility in soil

M obility in soil: No data available.

13. Disposal Considerations

Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.

14. Transport Information

ROAD & RAIL NOT REGULATED

OCEAN NOT REGULATED

AIR NOT REGULATED

INLAND WATERWAYS

NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

US. Toxic Substances Control Act

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720 .30

E uropean Inventory of Existing Commercial Chemical S ubstances (EINECS) This product is a polymer according to the definition in Directive 92/32/EEC (7th Amendment to Directive 67/548/EEC) and all of its starting materials and intentional additives are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS) or in compliance with European (EU) chemical inventory requirements.

Classification and User Label Information

This product is not classified as dangerous according to EC criteria.

16. Other Information

Product Literature

Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.