
MATERIAL SAFETY DATA SHEET

DYNAMIC INTERNATIONAL ENTERPRISES LIMITED

MSDS

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

1. Product Identification and Manufacture Information.

Trade Names/Synonyms:

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (C₆H₁₂O₃)

Manufacturer: DYNAMIC (NANJING)CHEMICAL INDUSTRY CO. ,LTD.

Add.: 1-A22-1BAILONG ROAD, NANJING CHEMICAL PARK, JIANGSU CHINA

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Shanghai Chemical Accident Counseling Service: 86-21-62533429

China National Chemical Accident Counseling Service: 86-532-3889090

2. Composition/Information on Ingredients

Main Content	CAS	Percentage (%)
Propylene Glycol Methyl Ether Acetate (METHOXYPROPYL ACETATE)	108-65-6	>99.5

3. Hazards Identification

Potential Hazards to health

Ingestion: Oral Human low toxic. A small dose maybe will not be harmful, but a large dose will cause harm.

Eyes Contact: A little irritative and cause harm to cornea.

Skin Contact: Very little irritative. Contact repeatedly will cause irritation, and part skin will turn bloody. Contact in a large quantity for a long time will feel light in the head or sleepy. Anaphylaxis will not occur (skin-rat).

Inhalation: Only inhale vapor usually will not be harmful.

Body Effect (to other organs): Will be irritative to respiratory tract, liver and kidney when test animals.

4. First Aid Measures

Inhalation:

Remove to fresh air and call a physician.

Ingestion:

Call a physician and induce vomiting under the physician's guidance.

Skin Contact:

Flush skin completely with running water or have a shower bath.

Eye Contact:

Flush eyes with plenty of water.

Physician's Attention:

No any special antidotal medicine is available now, should suit the remedy to the case.

5. Fire Fighting Measures

Flash Point: 46°C (Close)

Autoignition: 333°C

Inflammation Margin: 1.5~7 (200°C)

Min. Flammability (mJ): no data

Max. Explosion Press (Mpa): no data

Burn Decomposition Products: Irritative compound, carbon monoxide and carbon dioxide.

Fire Extinguishing Media:

Vapor, vaporous water, anti-deliquescent foam, dry chemical, or carbon dioxide. Don't spray direct water.

Extinguishing Guidance:

Keep all the staffs from the polluted area to safety place, and isolate the hazard area, keep unnecessary personnel from entering. Spray water to the fired liquid, spray vaporous water to cool the containers, but spraying direct water is not allowed. The fire may spread, so the source of fire should be cut off. Fight the fire in a down wind direction. Keep the staffs far away from the lower place where the vapor or fog may be accumulated.

Extinguishing Measures:

In the event of a fire, emergency staffs should wear fire fighting clothing and self-contained breathing apparatus with facepiece operated in the pressure demand or other positive pressure mode. If no protective clothing or fire fighting device, the personnel should be kept in a safe place or position.

6. Accidental Release Measures

Personnel Protection

Remove the kindling which is near the leaked material or vapor released position to prevent firing or explosion. Large spills: Submit explosion warning to the public who live in the down wind direction. Explosion inspection device should be equipped to find whether explosion will happen when reenter into the leaked place. All the containers and operating equipment should be grounded.

Environmental Protection

The vapor maybe explosive, it should be far away from sewer or drain.

Eliminating Method

Collect spilled material with explosionproof pump, absorb with sand and cover with foam to reduce vapor harm when possible.

7. Handling and Storage

Handling

Note maybe there is some harmful leftover in the emptied container. Don't do incising, drilling, rubbing, welding or operating beside the empty containers. No smoking, fire or kindling in the work area or storehouse. The product can't be transported by pressing. All the equipment and device should be grounded.

Storage

Use non-spark or explosionproof device or equipment. The product should be stored in a tightly closed container when not use it. The container should be made of carbon steel, stainless steel, or

polytetrafluoroethylene (PTFE).

8. Exposure Controls/Personal Protection

Contact limit in work place

China: No regulation

USA: No regulation

Engineering Control: Local and/or general exhaust ventilation is necessary.

Personnel protective device.

Eyes/Face Protection: Use chemical resistance goggles.

Skin Protection: Wear osmoticfree clothing when contact repeatedly or for a long time. Choose the appropriate shoes, gloves, apron or full protective clothing if necessary.

Breathing System Protection: If feel irritative to respiratory tract, an approved air-purifying respirator shall be worn.

9. Physical and Chemical Properties

Appearance and Odor: Colorless liquid, a little pleasant, ether odor.

Vapor Pressure: 3.7 mmHg (20°C)

Vapor Density: 4.6

Boiling Point: 145.8°C

Solubility to Water: 19.8g/100g

Specific Gravity: 0.966 (25/25°C)

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Decomposition Products: Usually will no decomposition, it will depend on temperature, vapor source and some other conditions.

Hazardous Polymerization: Will not occur

Incompatibilities: Oxidizer

Conditions to Avoid: Static releasing, flammable vapor releasing in high temperature.

11. Toxicological Information

Toxicity Data:

Skin Contact: LD50: 5000mg/kg (skin female rabbit).

Ingestion: LD50: 8532mg/kg (oral female rat); >10,000mg/kg (oral male rate).

Incur Cancer: No data.

Incur Distortion: Seems will not happen.

Reproduction Effect: No data.

12. Ecological Information

Environmental Toxicity.

Living Beings Environment: No toxicity.

Acute Toxicity to Organism: LC50 or EC50>100mg/L (for the bulk sensitive species).

Acute Toxicity to Small Carp: 161mg/L.

Acute Toxicity to Water Flea: 408mg/L~>500mg/L.

Acute Toxicity to Rainbow Trout: 100-180mg/L

13. Disposal Considerations

Dispose in accordance with all national and local applicable regulations, please inquiry local environmental department.

14. Transport Information

Home

Hazard Commodity Description No.: 33648 flammable liquid (flash point 23~61°C)

UN No.: 3272

International

America DOT: Please refer to the relative regulations in DOT.

15. Regulatory Information

Product Description: Propylene glycol methyl ether acetate

In Current Chinese Chemical Inventory: Yes

Severe Toxin Classification, Sort and Description No. (GB57-93): Not available

Hazard Commodity Description No. (GB12268-90): 33648

Fatal Hazard Sources Labeling: No regulation

16. Other Information

All the information in the MSDS is from our latest database, they are only for users' reference, users shall prepare its own operating regulation in accordance with practical situation.

Prepared by: Shanghai Chemical Toxin Counseling Service of China National Economics & Trade
Committee

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