



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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Danvers, MA 01923	Emergency telephone Chemtrec	800-424-9300

Product name TPV THINNER

Product code No data

Product Use Description No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, colourless

WARNING! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL IF INHALED OR SWALLOWED.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

May cause mild skin irritation. Symptoms may include redness and burning of skin. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:; Upper respiratory tract, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:; stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Lung irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness)

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:; mild, reversible liver effects, mild, reversible kidney effects, nasal damage

Carcinogenicity

There is no information available. The chance of this material causing cancer is unknown.

Reproductive hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	<=100%

4. FIRST AID MEASURES

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Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam, Water spray, Carbon dioxide (CO₂), Dry chemical

Hazardous combustion products

May form: carbon dioxide and carbon monoxide

Precautions for fire-fighting

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

NFPA Flammable and Combustible Liquids Classification

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Combustible Liquid Class II

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Environmental precautions

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up

No data

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Store out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below recommended exposure guidelines. Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Eye protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory protection

If overexposure has been determined or documented, a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	colourless
Odour	ether-like
Boiling point/boiling range	140.00 - 150.00 °C @ 760.00 mmHg
pH	No data
Flash point	45.55 °C Seta closed cup
Evaporation rate	0.37
Lower explosion limit/Upper explosion limit	1.5 %(V) / 7.0 %(V)

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Vapour pressure	0.522 kPa @ 25 °C
Vapour density	4.600 (AIR=1)
Density	0.969 g/cm ³ @ 68.00 °F / 20.00 °C 8.08 lb/gal @ 68.00 °F / 20.00 °C
Solubility	soluble in water
Partition coefficient: n-octanol/water	3.600
log Pow	no data available
Autoignition temperature	670 °F / 354 °C

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

None known.

Incompatible products

Avoid contact with:, Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD 50 Rat: 8,532 mg/kg
Acute inhalation toxicity	: LC 50 Rat: 5344 ppm, 4 h
Acute dermal toxicity	: LD 50 Rabbit: (>) 5,000 mg/kg

12. ECOLOGICAL INFORMATION

Biodegradability

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

Bioaccumulation

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

Ecotoxicity effects

Toxicity to fish

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

Toxicity to daphnia and other aquatic invertebrates.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

Toxicity to algae

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

Toxicity to bacteria

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

Biochemical Oxygen Demand (BOD)

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

Chemical Oxygen Demand (COD)

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

Additional ecological information

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

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14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

UN 3272	ESTERS, N.O.S. (PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE)	3		III	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 3272	Esters, n.o.s. (PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE)	3		III	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 3272	Esters, n.o.s. (PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE)	3		III	
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	3272	ESTERES, N.E.P. (PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE)	3	III
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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

New Jersey RTK Label Information

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6
2-METHOXY-1-PROPYL ACETATE	70657-70-4

Pennsylvania RTK Label Information

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6
2-METHOXY-1-PROPYL ACETATE	70657-70-4

Notification status

Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
US. Toxic Substances Control Act	y (positive listing)
EU. EINECS	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
Japan. Industrial Safety & Health Law (ISHL) List	y (positive listing)

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New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand y (positive listing)
Switzerland. Consolidated Inventory y (positive listing)

	HMIS	NFPA
Health	1*	0
Flammability	2	2
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.