



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code 38000
 Trade Name MICROPOSIT THINNER TYPE P
 Manufacturer/Supplier Shipley Company
 Address 455 Forest St.
 Marlborough, Massachusetts 01752

Phone Number (508) 481-7950
 Emergency Phone Number (508) 481-7950
 Chemtrec # (800) 424-9300
 MSDS first issued 03.07.96
 MSDS data revised
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 Local Sales Company Shipley Company, 455 Forest Street, Marlboro, MA 01752
 (508-481-7950)

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Component	Min%	Max%	EEC Classification
Propylene glycol monomethyl ether acetate (106-65-6)	100.00	100.00	Irritant R10, R36

3. HAZARD IDENTIFICATION

Routes of Entry Inhalation, ingestion, eye and skin contact, absorption.

Carcinogenic Status Not considered carcinogenic by NTP, IARC and OSHA

Target Organs - Nervous System - Skin - Eye - Liver - Kidney

Health Effects - Eyes Liquid or vapor may cause pain, transient irritation and superficial corneal effects.

Health Effects - Skin Material may cause slight irritation on prolonged or repeated contact. Repeated and/or prolonged contact may lead to: - drowsiness - liver damage - kidney damage

Health Effects - Ingestion A large dose may have the following effects:
- drowsiness - liver damage - kidney damage

Health Effects - Inhalation Exposure to vapor at high concentrations may have the following effects:
- irritation of nose, throat and respiratory tract - liver damage
- kidney damage

4. FIRST AID MEASURES

First Aid - Eyes Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

4. FIRST AID MEASURES (continued)

First Aid - Skin	Wash skin with water. Obtain medical attention if blistering occurs or redness persists.
First Aid - Ingestion	Wash out mouth with water. Obtain medical attention.
First Aid - Inhalation	Remove from exposure. If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.
Advice to Physicians	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use water spray, foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
Special Fire-Fighting Procedures	This product may give rise to hazardous vapors in a fire. Vapors can travel a considerable distance to a source of ignition and result in flashback.
Unusual Fire & Explosion Hazards	Pressure may build up in closed containers with possible liberation of combustible vapors.
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Finally flush area with plenty of water.
Personal Precautions	Wear appropriate protective clothing. Wear respiratory protection. Eliminate all sources of ignition.
Environmental Precautions	Prevent the material from entering drains or water courses.

7. HANDLING AND STORAGE

Handling	Use local exhaust ventilation. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.
Storage	Store in original containers. Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated - out of direct sunlight
Other	None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Occupational Exposure Standards

Propylene glycol monomethyl ether acetate An exposure limit of 100ppm is recommended.

Engineering Control Measures

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

Respiratory Protection

Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Hand Protection

Butyl rubber gloves.

Eye Protection

Chemical goggles.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Clear
Odor	Sweet
VOC (g/l)	966.0
Specific Gravity	0.966
pH	Neutral
Boiling Range/Point (°C/F)	145.8/295
Flash Point (PMCC) (°C/F)	46 / 114
Explosion Limits (%)	Lower limit 1.5 at 20 °C. Upper limit 7.0 at 20 C..
Solubility in Water	Insoluble.
Vapor Density (Air = 1)	Heavier than air.
Evaporation Rate	Slower than ether
Vapor Pressure	Propylene Glycol Monomethyl Ether Acetate: 3.7 mmHg at 20 °C.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	- High temperatures - Static discharge
Incompatibilities	- Oxidizing agents
Hazardous Polymerization	Will not occur.

10. STABILITY AND REACTIVITY (continued)

Hazardous Decomposition Products	None known.
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11. TOXICOLOGICAL INFORMATION

Acute Data	Propylene Glycol Monomethyl Ether Acetate: Oral LD50 (rat) mg/kg. Dermal LD50 (rabbit) 5000mg/kg.
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Chronic/Subchronic Data	No data.
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Genotoxicity	It was not mutagenic when tested in bacterial or mammalian systems.
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Reproductive/Developmental Toxicity	Developmental effects were seen in laboratory animals only at dose levels that were maternally toxic.
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Additional Data	None known.
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12. ECOLOGICAL INFORMATION

Mobility	Propylene Glycol Monomethyl Ether Acetate: Koc is 0 - 50.
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Persistence/Degradability	The product is partially or slowly biodegradable. BOD20 greater than 40%
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Bio-accumulation	No data.
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Ecotoxicity	The product is rated as practically non-toxic to aquatic species. Tests on the following species gave a LC50 of 161mg/litre: - fathead minnows Tests on the following species gave a LC50 of 408mg/litre: - daphnia
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13. DISPOSAL CONSIDERATIONS

Product Disposal	Incineration is the recommended method of disposal. Dispose of in accordance with all applicable local and national regulations.
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Container Disposal	Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care.
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14. TRANSPORT INFORMATION

DOT Ground:	Not Regulated per 49 CFR 173.150(f)(2)
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UN Proper Shipping Name	Flammable liquid, n.o.s.
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UN Class	(3) Flammable Liquid
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UN Number	UN1993
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14. TRANSPORT INFORMATION (continued)

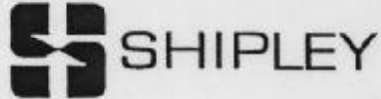
UN Packaging Group	III
N.O.S. 1:	Propylene Glycol Monomethyl Ether Acetate
N.O.S. 2:	
Subsidiary Risks	None.
Emergency Response Guidebook #	27
ADR/RID Substance Identification Number	CLASS 3 - 31(c)
RQ	None.
Marine Pollutant	No.

15. REGULATORY INFORMATION

TSCA Listed	Yes
WHMIS Classification	D.2.B B.3
MA Right To Know Law	All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at the de minimus concentration have been identified in the hazardous ingredients section of the MSDS.
California Proposition 65	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.
SARA TITLE III-Section 311/312 Categorization (40 CFR 370)	Immediate, delayed, flammability hazard
SARA TITLE III-Section 313 (40 CFR 372)	This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Rating- FIRE	2
NFPA Rating- HEALTH	2
NFPA Rating- REACTIVITY	0
NFPA Rating- SPECIAL	None.
Revisions Highlighted	
Abbreviations	CAS#: Chemical Abstract Services Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit NTP: National Toxicology Program IARC: International Agency for Research on Cancer R: Risk



MATERIAL SAFETY DATA SHEET
MICROPOSIT THINNER TYPE P

38000 1.00 US Current 03.07.1996

16. OTHER INFORMATION (continued)

S: Safety
LD50: Lethal Dose 50%
LC50: Lethal Concentration 50%
BOD: Biological Oxygen Demand
Koc: Soil Organic Carbon Partition Coefficient.

Disclaimer

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