

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code 35506
Trade Name MICROPOSIT PRIMER
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 8 July 1996
MSDS data revised 7 August 1997
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 (508-481-7950)

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Components in Product

Component Name	CAS# / Codes	Concentration
hexamethyldisilazane	999-97-3	95.00 - 99.00
Siloxane Compound		1.00 - 5.00
Ammonia	7664-41-7	0.10 - 1.00

3. HAZARD IDENTIFICATION

Main Hazards - Flammable - Water Reactive - Nervous System - Skin - Eye - Respiratory System
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 - Lung
Health Effects - Eyes Liquid or vapor may cause pain, transient irritation and superficial corneal effects. Liquid, mist or vapor at high concentrations will cause conjunctival irritation and possibly corneal damage.
Health Effects - Skin Repeated or prolonged contact may cause chemical burns. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Vapor may be absorbed through the skin in toxicologically significant amounts.
Health Effects - Ingestion Swallowing may have the following effects:
 - severe irritation of mouth, throat and digestive tract - nausea - vomiting - diarrhea - dizziness - drowsiness - headache
Health Effects - Inhalation Exposure to vapor at high concentrations may have the following effects:
 - irritation of nose, throat and respiratory tract - coughing - chest pains - difficulty with breathing

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.
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 alcohol resistant foam.
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. Ammonia will be generated from reaction with water.
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.
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 - away from incompatible materials

Other

None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

hexamethyldisilazane None assigned.
Ammonia ACGIH: TLV 25ppm (17mg/m3) 8h TWA. ACGIH: STEL 35ppm (24mg/m3) 15min TWA. OSHA: PEL 50ppm (35mg/m3) 8h TWA. UK EH40: OES 25ppm (17mg/m3) 8h TWA. UK EH40: OES 35ppm (24mg/m3) 15min TWA.
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 or nitrile gloves.

	Eye Protection	Chemical goggles.
	Body Protection	Normal work wear.
9.	PHYSICAL AND CHEMICAL PROPERTIES	
	Physical State	Liquid
	Color	Clear
	Odor	Mild Amine
	VOC (g/l)	443.1
	Specific Gravity	0.773
	pH	Neutral
	Boiling Range/Point (°C/F)	126 / 259
	Flash Point (PMCC) (°C/F)	9 / 48
	Explosion Limits (%)	Lower limit 0.7 at 40 °C. Upper limit 31 at 120 C.
	Solubility in Water	Reacts with water.
	Vapor Density (Air = 1)	Heavier than air.
	Evaporation Rate	Slower than ether
	Vapor Pressure	Hexamethyldisilazane: 23 mmHg at 20 °C.
10.	STABILITY AND REACTIVITY	
	Stability	Stable under normal conditions.
	Conditions to Avoid	- High temperatures - Static discharge - Exposure to water or moisture
	Incompatibilities	- Water - Acids
	Hazardous Polymerization	Will not occur.
	Hazardous Decomposition Products	- carbon monoxide - Carbon Dioxide - oxides of nitrogen - Silicon
11.	TOXICOLOGICAL INFORMATION	
	Acute Data	Hexamethyldisilazane: Oral LD50 (rat) 850mg/kg. Inhalation LC50 (rat) 8700mg/litre/4h.
	Chronic/Subchronic Data	No relevant studies identified.
	Genotoxicity	No adverse effects are expected.
	Reproductive/Developmental Toxicity	No adverse reproductive or fetal developmental effects are expected.
	Additional Data	None known.
12.	ECOLOGICAL INFORMATION	
	Mobility	No data.
	Persistence/Degradability	No data.
	Bio-accumulation	No data.
	Ecotoxicity	No data.
13.	DISPOSAL CONSIDERATIONS	
	Product Disposal	Incineration is the recommended method of disposal. Dispose of in accordance with all applicable local and national regulations.
	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.
14.	TRANSPORT INFORMATION	
	DOT Ground:	Flammable liquids, corrosive, n.o.s.
	UN Proper Shipping Name	Flammable liquids, corrosive, n.o.s.
	UN Class	(3) Flammable Liquid
	UN Number	UN2924
	UN Packaging Group	II
	N.O.S. 1:	Hexamethyldisilazane
	N.O.S. 2:	
	Subsidiary Risks	Corrosive
	ADR/RID Substance Identification Number	CLASS 3 - 26(b)
	CERCLA RQ	Ammonia (100#)
	Marine Pollutant	No.
15.	REGULATORY INFORMATION	
	TSCA Listed	Yes
	TSCA Exemptions	
	WHMIS Classification	D.2.B B.2
	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, reactive 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	4
	NFPA Rating- HEALTH	2
	NFPA Rating- REACTIVITY	1
	NFPA Rating- SPECIAL	water reactive
	Revisions Highlighted	Composition/Information on the Components

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

S: Safety

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

BOD: Biological Oxygen Demand

Koc: Soil Organic Carbon Partition Coefficient.

Tlm: Median Tolerance Limit

Disclaimer

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