



M A T E R I A L S A F E T Y D A T A S H E E T

SHIPLEY COMPANY, INC.
2300 Washington Street
Newton, Massachusetts 02162

Emergency Phone: (617)969-5500

Chemtrec Number: (800)424-9300

Section I - PRODUCT INFORMATION

PRODUCT NAME: MICROPOSIT(R) PRIMER (HMDS)

PRODUCT CLASS: Primer

EFFECTIVE DATE: 26 February 1991

MSDS # MC-00250 SUPERSEDES: 10-01-1990

PREPARED BY: T. Blakeslee

Section II - HAZARDOUS COMPONENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>WEIGHT%</u>	<u>ACGIH TLV</u> <u>ppm(mg/m3)</u>	<u>OSHA PEL</u> <u>ppm(mg/m3)</u>
Hexamethyldisilizane	999-97-3	100	N.A.	N.A.

Section III - HEALTH HAZARDS

CARCINOGENIC STATUS: Not considered carcinogenic by NTP, IARC and OSHA.

EXPOSURE LIMITS: Not established. Avoid contact with material.

ROUTES OF ENTRY: Inhalation of mists or vapors, eye and skin contact, ingestion, skin absorption.

ACUTE EFFECTS: Vapors are irritating to eyes, nose and respiratory tract. Overexposure to vapors may result in headache, nausea, vomiting. Vapors have an objectionable odor.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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Section III - HEALTH HAZARDS

Ingestion may cause headache, nausea, vomiting and abdominal pains. Ingestion may cause moderate toxicity.

Contact with eyes and skin causes severe irritation and may cause chemical burns.

CHRONIC EFFECTS:

Prolonged, repeated contact may result in dermatitis. Prolonged or widespread contact with skin may lead to absorption of harmful amounts of material.

EMERGENCY FIRST AID PROCEDURES:

INGESTION: Contact physician at once.

E. CONTACT: Flush immediately with plenty of water for at least 15 minutes. Contact physician at once.

SKIN CONTACT: Flush immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. Contact physician. Wash clothing before reuse.

INHALATION: Move into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact a physician at once.

NOTE TO PHYSICIAN: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

Section IV - PHYSICAL DATA

APPEARANCE AND ODOR: Clear solution with slight amine odor.
% VOLATILE BY WEIGHT: 100%
EVAPORATION RATE: Slower than ether.
SPECIFIC GRAVITY: Approx. 0.773
VAPOR DENSITY(AIR=1): Heavier than air.

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Section IV - PHYSICAL DATA

SOLUBILITY IN WATER: Not soluble. Reacts with water.
BOILING RANGE: begins ca 126° C
pH: N.A.
VAPOR PRESSURE(MMHg):
Hexamethyldisilizane 20mm at 20° C

Section V - PHYSICAL HAZARDS

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 48° F
METHOD USED: PMCC
EXPLOSION LIMITS:
Hexamethyldisilizane 0.8%
EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Use normal procedures for flammable liquid fires. Containers near fire may be cooled with water. Oxides of nitrogen and silicon may be evolved from fire. Ammonia will be generated from reaction with water.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Pressure may build up in closed containers. This is accelerated by heat with possible liberation of flammable vapors.

REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Heat, sparks, flame
INCOMPATIBILITY: Water, mineral acids, oxidizing agents, aluminum and zinc metal.
DECOMPOSITION PRODUCTS: Details unknown. May emit toxic fumes if burned.
HAZARDOUS POLYMERIZATION: Will not occur.

Section VI - SPILL, LEAK AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILL:

Section VI - SPILL, LEAK AND DISPOSAL PROCEDURES

Eliminate sources of ignition, provide adequate ventilation and suitable protective clothing. Collect with inert absorbent material and place in a suitable container for disposal.

Dispose of contaminated product and materials used in cleaning up spills and leaks in a manner approved for this material.

DISPOSAL:

Due to the nature of this product, disposal of it, or residues therefrom should be made in compliance with federal, state and local environmental laws.

Contact your Shipley Technical Representative for more information. It is your responsibility to verify that any recommended procedures comply with federal, state and local regulations for wastewater discharge.

Section VII - PRECAUTIONS FOR SAFE USE AND HANDLING

RESPIRATORY PROTECTION: 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. The respirator must be approved by the National Institute for Occupational Safety and Health for the substance of concern.

EYE PROTECTION: Chemical goggles.

PROTECTIVE CLOTHING: Chemical resistant gloves and suitable protective clothing to prevent skin contact.

WORK PRACTICES: Avoid skin contact. Practice good personal hygiene to prevent accidental exposure.

VENTILATION: Provide good general (mechanical) room ventilation. Special local exhaust ventilation is recommended at points where vapors can be released into the workplace air.

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Section VIII - SPECIAL PRECAUTIONS / ADDITIONAL INFORMATION

PRECAUTIONS TO TAKE IN HANDLING AND STORAGE: WARNING! Flammable liquid. Store in closed original container in a cool, dry area below 48° F. Storage between 50-70° F should be done in approved flammable cabinets. Storage at this temperature will not affect product integrity. Keep away from moisture, oxidants, metals, heat and sources of ignition. Do not store in direct sunlight. Avoid storing longer than one year.

Section IX - TRANSPORTATION

DOT PROPER SHIPPING NAME: Flammable Liquid, N.O.S.
DOT HAZARD CLASSIFICATION: Flammable Liquid
DOT HAZARD IDENTIFICATION NUMBER: UN1993

Section X - REGULATORY INFORMATION

TSCA STATUS:

The products listed and their components have been manufactured in accordance with the inventory listing and premanufacture notice requirements of the Toxic Substance Control Act.

MA RIGHT TO KNOW LAW:

All components have been checked for inclusion on the Massachusetts Substance List.

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.

HAZARD CATEGORIES UNDER CRITERIA OF
OF SARA TITLE III RULES (40 CFR 370): Immediate, Delayed, Fire, Reactive

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING

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Section X - REGULATORY INFORMATION

REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS #	Chemical Name	Percent by Weight
N.A.	N.A.	N.A.

Section XI - NOTICE

N.A. denotes no applicable information was found

THE DATA CONTAINED HEREIN IS BASED ON INFORMATION THAT SHIPLEY COMPANY BELIEVES TO BE RELIABLE, BUT NO EXPRESSED OR IMPLIED WARRANTY IS MADE WITH REGARD TO THE ACCURACY OF SUCH DATA OR ITS SUITABILITY FOR A GIVEN SITUATION. SUCH DATA RELATES ONLY TO THE SPECIFIC PRODUCT DESCRIBED AND NOT TO SUCH PRODUCTS IN COMBINATION WITH ANY OTHER PRODUCT AND NO AGENT OF SHIPLEY COMPANY IS AUTHORIZED TO VARY ANY OF SUCH DATA. SHIPLEY COMPANY AND ITS AGENTS DISCLAIM ALL LIABILITY FOR ANY ACTION TAKEN OR FOREGONE ON RELIANCE UPON SUCH DATA.

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