

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Nukote Chemshield, Side-A

SECTION I - COMPANY IDENTIFICATION

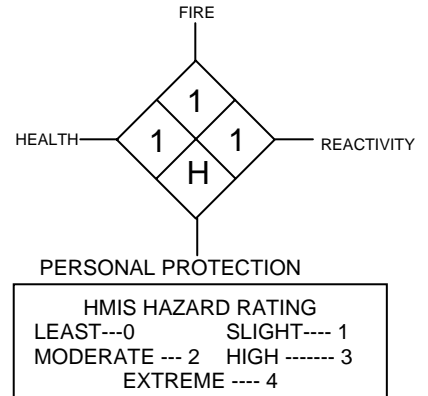
COMPANY NAME: Nukote Coating Systems International

ADDRESS: Suite 7H, Aihe Mansion, No. 629 Lingling Road, Shanghai 200030, China

INFORMATION PHONE: (China) 021-54249811

EMERGENCY CONTACT: (CHEMTREC): 800-424-9300
Outside USA and Canada, call CHEMTREC collect: 703-527-3887

DATE REVISED: June 10, 2005



SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE	
	CAS NUMBER	OSHA PEL	ACGIH TLV	MFG TLV	mm Hg	@ TEMP 25°C (77°F)
Bi-phenol A Epichlorohydrin Polyurethane, Tolyloxy and Propane						

* Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.
Information concerning non-hazardous ingredients is considered a Trade Secret
Metal and ceramic additives are not identified due to confidentiality of formulations. Content percentages of hazardous materials identified vary between formulations listed in this data sheet.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/D **SPECIFIC GRAVITY:** 1.8
COATING V.O.C: N/A **VAPOR DENSITY:** > 1
EVAPORATION RATE: Slower than ether **SOLUBILITY IN WATER:** Moderate
APPEARANCE AND ODOR: Viscous liquid of various colors, Characteristic urethane odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >254°C (490°F) **METHOD USED:** TCC

FLAMMABLE LIMITS IN AIR BY VOLUME: N/A

EXTINGUISHING MEDIA: Use water, fog, dry chemical, foam or carbon dioxide media.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool material containers exposed to heat from the fire if possible. Toxic gases may be released during fire. A positive pressure, self-contained breathing apparatus, with full face-piece and protective clothing should be worn. With small fires use chemical, CO₂ or water spray. With large fires use dry chemical, CO₂, alcohol resistant foam or water spray. Move containers away from fire if this can be accomplished without risk. Dike fire control water for later disposal. Do not scatter the extinguishing material. For fires involving tanks or truck/train loads of material, fight fire from maximum distance possible or use unmanned hose holders or monitor nozzles. Cool containers exposed to heat from the fire with flooding quantities of water until well after fire is out. Withdraw to a safe distance immediately in the event of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Delayed lung damage can occur after exposure to combusting products. Containers may explode when exposed to heat from flames.

SECTION V - REACTIVITY DATA

STABILITY: Stable under normal condition and ambient temperatures.

CONDITIONS TO AVOID: Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system may cause liberation of carbon dioxide and buildup of pressure.

INCOMPATIBILITY (MATERIALS TO AVOID): Use or contact with oxidizing agents (perchlorates, nitrates, etc.) and cleaning solutions such as chromerge and aqueregia.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Decomposition is highly unlikely under normal industrial use.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI - HEALTH HAZARD DATA

SKIN CONTACT: Frequent and prolonged contact can cause irritation dermatitis, defatting, allergic response, severe skin irritation or burns. Possible sensitization to skin.

EYE CONTACT: Frequent and prolonged contact can cause irritation, burning, or chemical burns.

SKIN ABSORPTION: This product can be toxic by dermal absorption.

INGESTION: Ingestion of this product is expected to be harmful or fatal.

INHALATION: Vapors or mist are irritating and may cause nasal discharge, coughing, and discomfort in nose, throat, and chest. Severe over exposure may result in difficulty breathing, headache, nausea, vomiting, and drowsiness.

HEALTH HAZARDS: Moderately toxic through skin contact and/or ingestion. Mildly toxic through inhalation.

CARCINOGENICITY: NTP: No IARC Monographs: No OSHA Regulated: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing lung or skin conditions could be aggravated by repeated exposure.

EMERGENCY AND FIRST AID PROCEDURES: **EYE CONTACT:** Wash with clean water for at least fifteen minutes; seek medical attention immediately. **INHALATION:** Move individual to fresh air. If breathing has stopped, apply artificial respiration. Seek medical attention immediately. **SKIN CONTACT:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention. **INGESTION:** Give one glass of water if victim is conscious. Seek medical advice immediately. Do not induce vomiting. Have a physician determine if the condition of the patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person. **NOTE TO PHYSICIANS:** Provide symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area and avoid breathing vapors. Use of self-contained breathing apparatus may be required in confined or enclosed areas. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. Eliminate all ignition sources, no smoking, flares, sparks or flames in immediate area. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leaks only if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer o containers. For major spill and leak consultation, call Chemtrec @ 800-424-9300.

WASTE DISPOSAL METHOD: Dispose of material in accordance with all federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in well-ventilated, cool, dry area.

OTHER PRECAUTIONS: Store in original container. Keep tightly closed. Do not reuse container for other purposes. Keep out of reach of children.

SECTION VIII - CONTROL MEASURES

VENTILATION: Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For general guidance on engineering control measures refer to the ACGIH publication "Industrial Ventilation".

RESPIRATORY PROTECTION: When the product is applied or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required. Air purifying respirators equipped with organic vapor cartridges and a HEPA (P100) particulate filter may be used under certain conditions when a cartridge change-out schedule has been developed in accordance the OSHA respiratory protection standard (29 CFR 1910.134). Mechanical ventilation adequate to keep exposure below TLV levels is recommended.

PROTECTIVE CLOTHING: Protective clothing should be selected and used in accordance with the "Guidelines for the Selection of Chemical Protective Clothing", published by ACGIH.

EYE PROTECTION: Chemical safety goggles. If there is a potential for splashing, use a full-face shield.

OTHER PROTECTIVE EQUIPMENT AND MEASURES: Wear gloves at all times. Gloves should be composed of neoprene, nit rile-tadiene rubber or butyl rubber. Thin disposable gloves should be avoided for repeated or long-term use.

SECTION IX - REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: Nukote Chemshield Anti-Corrosive

STATE REGULATIONS: CALIFORNIA – None.

TOXIC SUBSTANCE CONTROL ACT: All chemicals comprising this product are listed on the TSCA inventory.

USER'S RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate and current as of the date of this MSDS. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Nukote Chemshield, Side-B

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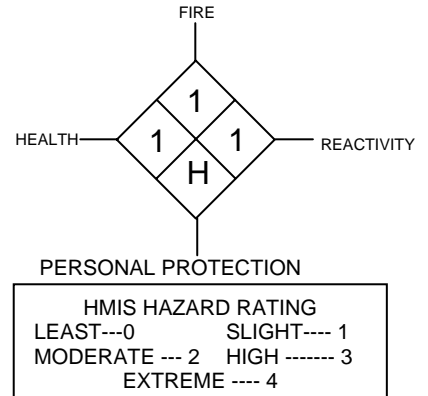
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Isophoronediamine						
Benzyl Alcohol						
Methyl Ethyl Ketoxime						

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SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/D **SPECIFIC GRAVITY:** 2.2
COATING V.O.C: N/A **VAPOR DENSITY:** > 1
EVAPORATION RATE: Slower than ether **SOLUBILITY IN WATER:** Moderate
APPEARANCE AND ODOR: Viscous liquid of various colors, Characteristic urethane odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >254°C (490°F) **METHOD USED:** TCC
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