

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

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : STERI-SOFT FLAKE BC PART B
 IDENTIFICATION NUMBER: STSFTURB00B PREPARE / REVISED: 02/10/13
 PRODUCT USE/CLASS : URETHANE CATALYST

SUPPLIER: Dudick, Inc. 1818 Miller Parkway Streetsboro, Ohio 44241 CHEM-TEL: 800-255-3924 24 HOURS A DAY	MANUFACTURER: Dudick, Inc. 1818 Miller Parkway Streetsboro, Ohio 44241 CHEM-TEL: 800-255-3924 24 HOURS A DAY
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PREPARER: DUDICK, INC PHONE: 800-322-1970

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	99.9 %
02	HEXAMETHYLENE-1,6 DIISOCYANATE	822-06-0	0.1 %

ITEM	EXPOSURE LIMITS				COMPANY TLV-TWA	SKIN
	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING		
01	.5 MG/m ³	1.0 MG/m ³	NO INFO	NO INFO	NE	YES
02	.005PPM	NO INFO	NO INFO	NO INFO	NE	YES

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: WARNING! MAY CAUSE RESPIRATORY TRACT AND SKIN SENSITIZATION. DO NOT GET IN EYES, ON SKIN, OR CLOTHING. DO NOT BREATHE VAPORS OR MISTS. RESPIRATORY HAZARD. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. TOXIC IF INGESTED.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: EYE CONTACT MAY CAUSE SEVERE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: ISOCYANATES REACT WITH SKIN PROTEIN AND MOISTURE AND CAN CAUSE REDNESS, SWELLING, RASH, SCALING, OR BLISTERING.

EFFECTS OF OVEREXPOSURE - INHALATION: MAY CAUSE IRRITATION OF THE NOSE, THROAT, AND LUNGS. CHEMICAL OR HYPERSENSITIVE PNEUMONITIS WITH FLU-LIKE

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SECTION 3 - HAZARDS IDENTIFICATION

SYMPTOMS HAS BEEN REPORTED. THESE SYMPTOMS CAN BE DELAYED FOR SEVERAL HOURS AFTER EXPOSURE.

EFFECTS OF OVEREXPOSURE - INGESTION: INGESTION MAY CAUSE BURNS TO THE MOUTH, THROAT, AND ESOPHAGUS. INGESTION MAY CAUSE NAUSEA, CRAMPS, VOMITING, AND DIARRHEA.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: AS A RESULT OF REPEATED OVEREXPOSURE OR A LARGE SINGLE EXPOSURE, CERTAIN INDIVIDUALS DEVELOP ISOCYANATE SENSITIZATION. SUBSEQUENT EXPOSURES WILL CAUSE THEM TO REACT TO ISOCYANATE LEVELS WELL BELOW THE TLV. THESE SYMPTOMS INCLUDE CHEST TIGHTNESS, WHEEZING, COUGH, SHORTNESS OF BREATH, OR ASTHMA ATTACKS. ONCE SENSITIZED, AN INDIVIDUAL CAN EXPERIENCE THESE SYMPTOMS FROM NON-SPECIFIC SOURCES SUCH AS DUST, COLD AIR, OR OTHER IRRITANTS. OVEREXPOSURE TO ISOCYANATES HAS BEEN REPORTED TO CAUSE LUNG DAMAGE (DECREASE IN LUNG FUNCTION), WHICH MAY BE PERMANENT. ANIMAL TESTS HAVE INDICATED THAT RESPIRATORY SENSITIZATION CAN DEVELOP FROM SKIN CONTACT WITH ISOCYANATES. ONCE A PERSON IS SENSITIZED TO ISOCYANATES, NO FURTHER EXPOSURE CAN BE PERMITTED.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: HOLD OPEN EYE LIDS AND FLUSH WITH COPIOUS AMOUNTS OF FLOWING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE.

FIRST AID - INHALATION: REMOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SUPPLEMENTAL OXYGEN MAY BE INDICATED. CALL A PHYSICIAN.

FIRST AID - INGESTION: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION. IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GIVE VICTIM PLENTY OF WATER TO DRINK IF CONSCIOUS.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 345 F
(CLEVELAND OPEN CUP)

LOWER EXPLOSIVE LIMIT: N.A.
UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: 896 F

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: TOXIC FUMES MAY BE PRODUCED IF THIS PRODUCT IS INVOLVED IN A FIRE. AT HIGH TEMPERATURES, THIS PRODUCT MAY

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SECTION 5 - FIRE FIGHTING MEASURES

POLYMERIZE AND BUILD UP ENOUGH PRESSURE FOR CONTAINERS TO RUPTURE EXPLOSIVELY.

SPECIAL FIREFIGHTING PROCEDURES: EVACUATE AREA. FIGHT FIRE FROM A SAFE DISTANCE. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. CONTAIN RUNOFF IN DIKES. AVOID CONTAMINATING STREAMS.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE AREA TO CONTAIN SPILLAGE. ABSORB EXCESS WITH SAND, EARTH, OR VERMICULITE. SCRAPE UP AND PLACE IN SUITABLE CONTAINER FOR DISPOSAL. WEAR ALL APPROPRIATE SAFETY EQUIPMENT WHILE HANDLING SPILLS. PREPARE A DECONTAMINATION SOLUTION OF 0.2-5% DETERGENT AND 3-8% CONCENTRATED AMMONIUM HYDROXIDE IN WATER.TREAT SPILL AREA WITH 10 PARTS SOLUTION PER EACH PART OF SPILL.ALLOW TO REACT FOR 10 MINUTES FOR SMALL SPILLS AND 48 HOURS FOR LARGE SPILLS.NEUTRALIZE THE WASTE.CARBON DIOXIDE WILL EVOLVE LEAVING INSOLUBLE POLYUREAS. KEEP CONTAINERS CLOSED BUT NOT SEALED UNTIL CO2 EVOLUTION IS COMPLETE.

SECTION 7 - HANDLING AND STORAGE

HANDLING: IF BODILY CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING AT ONCE. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING VAPORS. FOR INDUSTRIAL USE ONLY. WEAR APPROPRIATE SAFETY EQUIPMENT WHEN HANDLING.

STORAGE: DO NOT STORE NEAR INCOMPATIBLES. DO NOT STORE NEAR EXCESSIVE HEAT OR NEAR SOURCES OF IGNITION. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. BUNGS MUST BE KEPT TIGHTLY CLOSED WHEN CONTAINERS ARE NOT IN USE OR ARE PLACED IN STORAGE AREAS. BEFORE CLOSING PARTIALLY EMPTY CONTAINERS, BLANKET WITH DRY NITROGEN AND REPLACE ANY DAMAGED GASKETS.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: GENERAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO MINIMIZE VAPOR CONCENTRATIONS. LOCAL EXHAUST MAY BE REQUIRED.

RESPIRATORY PROTECTION: WEAR A PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR WHEN EXPOSURE TO MISTS OR VAPORS IS LIKELY. INSPECT CARTRIDGES FREQUENTLY,ESPECIALLY IF SPRAYING. ENSURE THAT WORKERS ARE TRAINED IN THE PROPER USE OF RESPIRATORY PROTECTION.

SKIN PROTECTION: IMPERVIOUS RUBBER OR NEOPRENE TYPE. CONSULT GLOVE MANUFACTURER FOR RECOMMENDATIONS.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS RECOMMENDED AS MINIMUM PROTECTION. GOGGLES RECOMMENDED FOR INDIVIDUALS MIXING THE RESIN AND CATALYST. USE SAFETY GLASSES AS MINIMUM PROTECTION. GOGGLES RECOMMENDED WHEN SPLASHING IS LIKELY TO OCCUR.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

OTHER PROTECTIVE EQUIPMENT: CLEAN, FULL BODY COVERING TO MINIMIZE SKIN CONTACT WITH MATERIAL. AN EYEWASH STATION AND SAFETY SHOWER IS RECOMMENDED NEAR WORK AREA. THE USE OF BARRIER CREAMS MAY BE HELPFUL WHERE SKIN CONTACT IS LIKELY TO OCCUR.

HYGIENIC PRACTICES: SMOKING OR EATING IN THE WORK AREA SHOULD NOT BE PERMITTED. WASH THOROUGHLY AFTER HANDLING MATERIAL. PREEMPLOYMENT PHYSICALS AND PERIODIC MEDICAL EXAMS WITH LUNG FUNCTION TESTS ARE RECOMMENDED FOR INDIVIDUALS WORKING WITH ISOCYANATES.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: N/A	VAPOR DENSITY	: Is heavier than air
ODOR	: NONE	ODOR THRESHOLD	: NE
APPEARANCE	: PALE CLEAR LIQ	EVAPORATION RATE	: Is slower than Ether
SOLUBILITY IN H2O	: REACTS		
FREEZE POINT	: NE	SPECIFIC GRAVITY	: 1.13
VAPOR PRESSURE	: .00001mmHG @ 68F	pH @ 0.0 %	: NA
PHYSICAL STATE	: LIQUID	VISCOSITY	: ~200 cPs
COEFFICIENT OF WATER/OIL DISTRIBUTION: NE			

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: HEAT, FLAME, CONTAMINANTS. REACTION WITH WATER, CONTAMINANTS, OR EXCESSIVE HEAT MAY RESULT IN SUFFICIENT PRESSURE TO BURST CONTAINER.

INCOMPATIBILITY: WATER. STEAM. AMINES. ALCOHOLS. STRONG ALKALIS. CORROSIVE TO COPPER AND COPPER ALLOYS.

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN. OXIDES OF CARBON.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT LD50: 5000 mg/kg

PRODUCT LC50: 1 ppm

COMPONENT TOXICOLOGICAL INFORMATION:

CHEMICAL NAME	LD50	LC50
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	5000mg/KG ORAL RAT	>1.18mg/L

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SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: DO NOT CONTAMINATE PONDS, STREAMS, OR UNDERGROUND WATER SUPPLY. PREVENT FROM ENTERING SEWERS.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: FOLLOW ALL RELEVANT LOCAL, STATE, AND FEDERAL REGULATIONS. INCINERATION IS THE PREFERRED METHOD OF WASTE TREATMENT.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: PLASTIC LIQUID MATERIAL, N.O.I

DOT TECHNICAL NAME: NON-REGULATED

DOT HAZARD CLASS: NA

HAZARD SUBCLASS: NA

DOT UN/NA NUMBER: NA

PACKING GROUP: NA

RESP. GUIDE PAGE:

SECTION 15 - REGULATORY INFORMATION

THE FOLLOWING COMPONENTS ARE NOT SUBJECT TO REPORTING IN SECTION 2:

----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN
No non-hazardous components exist

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD REACTION HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN
No SARA Section 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

The chemical substances in this product are on the TSCA Section 8

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SECTION 15 - REGULATORY INFORMATION

Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME ----- CAS NUMBER
No information is available.

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME ----- CAS NUMBER
No non-hazardous materials are among the top five ingredients.

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME ----- CAS NUMBER
No non-hazardous ingredients are present at greater than 3%.

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME ----- CAS NUMBER
No Proposition 65 chemicals exist in this product.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2* FLAMMABILITY: 1 REACTIVITY: 1

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

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DISCLAIMER|
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The information contained on this MSDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to comply with all Federal, State and Local Regulations.

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<END OF MSDS>