## MATERIAL SAFETY DATA SHEET

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: MANUFACTURER: Dudick, Inc. Dudick, Inc.

1818 Miller Parkway

Streetsboro, Ohio 44241

Streetsboro, Ohio 44241

Streetsboro, Ohio 44241

CHEM-TEL: 800-255-3924 CHEM-TEL: 800-255-3924

24 HOURS A DAY 24 HOURS A DAY

PREPARER: DUDICK, INC PHONE: 800-322-1970

====	======= SECT	ION 2 - COMPOS	======== ITION/INFORM		GREDIENTS	=====
==== ITEM		CHEMICAL N	======== AME	C <i>I</i>		=======  WT/WT % LESS THAN
		ER OF HEXAMETH LENE-1,6 DIISO			8182-81-2 822-06-0	
ITEM	AC	E GIH TLV-STEL	OSI	łΑ	COMPANY	SKIN
	•	1.0 MG/m <sup>3</sup> NO INFO				YES YES
(See  ====	Section 16	for abbreviat	ion legend) ====================================	======= ENTIFICATIO	-=====================================	======

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

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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 (Continued on Page 2)

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	SECTION	3 - HAZARD	S IDENTIF:	ICATION		
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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.

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SECTION	5	-	FIRE	FIGHTING	MEASURES
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FLASH POINT: 345 F LOWER EXPLOSIVE LIMIT: N.A. (CLEVELAND OPEN CUP) 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 F	GHTING M	EASURES	

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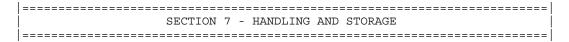
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POLYMERIZE AND BUILD UP ENOUGH PRESSURE FOR CONTAINERS TO RUPTURE EXPLOSIVELY.

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.

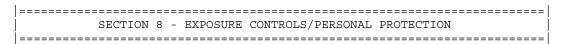
ĺ	SECTION 6 - ACCIDENTAL RELEASE MEASURES

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.



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.



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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\_\_\_\_\_\_ Product: STSFTURB00B PREPARE / REVISED: 02/10/13 |-----| 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 VAPOR PRESSURE : .00 SPECIFIC GRAVITY: 1.13 VAPOR PRESSURE : .00001mmHG @ 68F pH @ 0.0 % : NA PHYSICAL STATE : LIQUID VISCOSITY : ~20 : ~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
SECTION IS - 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:
GEOTTON 15 DECULATION THEODY THEODY
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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Product: STSFTURB00B
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.
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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>