

SAFETY DATA SHEET

SHOCK-CRETE 500 TC COMPONENT B

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SHOCK-CRETE 500 TC COMPONENT B

PRODUCT CODE: #SC500TCB

PRODUCT USE: Aliphatic isocyanate resin component of 2 part Aliphatic Urethane Coating.

MANUFACTURER

DUDICK, INC.
1818 MILLER PARKWAY
STREETSBORO, OH, 44241
330-562-1970

24 HR. EMERGENCY TELEPHONE NUMBER

CHEM-TEL (US Transportation): (800)255-3924

CHEM-TEL (International : +01-813-248-0585

Transportation)

2. HAZARDS IDENTIFICATION

CLASSIFICATION:

Acute Toxicity - Inhalation - Category 4

Specific target organ toxicity - single exposure - Respiratory tract irritation - Category 3

Skin Sensitizer - Category 1

GHS LABEL ELEMENTS:



SIGNAL WORD: Warning

HAZARD STATEMENTS:

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENTS :

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapors/spray.

P264 Wash all contacted body parts thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

DATE PRINTED	11/7/2019
SDS REF. No :	#SC500TCB

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container in accordance with local, regional, and federal regulations.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Weight %	CAS Number
Hexane, 1,6-diisocyanato-, homopolymer	90% to 100%	28182-81-2
Hexamethylene-1,6-Diisocyanate	0% to 0.2%	822-06-0

No further information available for this product.

4. FIRST AID MEASURES

EYES: Hold open eyelids and flush with copious amounts of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice/attention.

SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

INGESTION: Rinse mouth out with water.
Never give anything by mouth to an unconscious person.
Consult physician.

INHALATION: Move to an area free from further exposure. Get medical attention immediately. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.

NOTES TO PHYSICIAN: Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Alcohol resistant foam; Carbon Dioxide (CO₂); dry chemical; dry sand; use water to keep containers cool.

UNSUITABLE EXTINGUISHING MEDIA: Do not use high pressure water jet as this may spread the area of the fire.

SPECIFIC HAZARDS IN CASE OF FIRE: Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO₂ formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

DATE PRINTED	11/7/2019
SDS REF. No :	#SC500TCB

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTION FOR FIRE FIGHTERS: Wear self-contained breathing apparatus (SCBA) in positive pressure mode and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Isolate area; ensure adequate ventilation; remove all sources of ignition; use appropriate personal protection equipment; avoid breathing mist, vapors, spray; avoid contact with skin, eyes and clothing; keep unnecessary and unprotected personnel from entering the involved area.

ENVIRONMENTAL PRECAUTIONS: Halt the flow of material as soon as practical using appropriate barriers; Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches, waterways by using sand, earth or appropriate barriers.

METHOD AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Minor Spill or Leak (Wet surface): Cover spill area with suitable absorbent material (Kitty Litter, Oil-Dri®, etc). Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution, with scrubbing, followed by absorbent until the surface is decontaminated. Check for residual surface contamination. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide (CO₂) escape.

Neutralization solution:

A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid breathing vapors and/or aerosols. Emergency showers and eye wash stations should be readily accessible. Use personal protective equipment. When using, do not eat, drink or smoke.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

Storage temperature:

minimum:

-34 °C (-29.2 °F)

maximum:

45°C (113 °F)

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

EXPOSURE LIMITS

Components	CAS	Limits
Hexane, 1,6-diisocyanato-, homopolymer	28182-81-2	None established.
Hexamethylene-1,6-Diisocyanate	822-06-0	ACGIH TLV; TWA 0.005 ppm NIOSH REL; TWA 0.005 ppm

ENGINEERING CONTROLS: Ventilation:

Use local exhaust ventilation, or other engineering controls to maintain airborne levels requirements or guidelines.

General ventilation may not be sufficient.

PERSONAL PROTECTIVE EQUIPMENT

DATE PRINTED	11/7/2019
SDS REF. No :	#SC500TCB

RESPIRATORY PROTECTION: A respirator that is recommended or approved for use in isocyanate-containing environments (air-purifying or fresh air-supplied) may be necessary for spray applications which may produce inhalation exposures. A supplied-air respirator (either positive pressure or continuous flow-type) is recommended. NIOSH-certified End of Service Life Indicator or a change schedule based upon objective information or data should be used to ensure that cartridges are replaced before the end of their service life. In addition, prefilters should be changed whenever breathing resistance increases due to particulate buildup.

EYES PROTECTION: Full face shield with goggles underneath.

SKIN PROTECTION: Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact., Gloves, long sleeved shirts and pants. Nitrile rubber gloves., Butyl rubber gloves., Neoprene gloves

WORK HYGIENIC PRACTICES: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. Wash contaminated clothing before reuse. Eye wash stations and emergency showers should be available.

OTHER USE PRECAUTIONS: All employees who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Employees who have a history of adult asthma should be restricted from work with isocyanates. Employees with a history of prior isocyanate sensitization should be excluded from further work with isocyanates.

COMMENTS: No data available for this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous liquid

COLOR: Clear

FLASH POINT AND METHOD: 158 C CC

AUTO-IGNITION TEMPERATURE: Not Determined.

BOILING POINT/RANGE: No data available for this product.

MELTING POINT: Not Determined.

VAPOUR PRESSURE: Not determined.

VAPOUR DENSITY: Heavier than air.

SOLUBILITY: Not determined.

ODOR/THRESHOLD: Mild, characteristic.

LOWER / UPPER FLAMMABLE LIMITS: No data available for this product. TO No data available for this product.

DENSITY: 1.1472

EVAPORATION RATE: Slower than ether.

PARTITION COEFFICIENT: Not determined.

pH: Not Applicable.

DECOMPOSITION TEMPERATURE: Not determined.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: This product is stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Contact with moisture, other materials that react with isocyanates, or temperatures above 350 F (177 C), may cause rapid/violent polymerization.

CONDITIONS TO AVOID: Heat, flames and sparks. Protect from freezing.

MATERIALS TO AVOID: Water, Amines, Strong acids, bases, Alcohols, Copper alloys.

HAZARDOUS DECOMPOSITION PRODUCTS: By Fire and High Heat: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke., Hydrogen cyanide, Isocyanate, Isocyanic Acid, Other undetermined compounds.

11. TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

DATE PRINTED	11/7/2019
SDS REF. No :	#SC500TCB

ACUTE EFFECTS:

EYE CONTACT: May cause eye irritation. Corneal injury is unlikely.

SKIN CONTACT: No data available for this product.

INHALATION: Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause nose, throat, and lung irritation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations.

INGESTION: Not classified

TARGET ORGAN: No data available for this product.

CHRONIC EFFECTS: This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. May cause allergic skin reaction, eye disease, skin disorders and allergies. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations.

TOXICITY VALUES: Acute oral toxicity

LD50: > 2,500 mg/kg (Rat)

Acute inhalation toxicity

LC50: 390-543 mg/m³, 4 h (Rat, Male/Female)

RD50: 20.8 mg/m³, 3 h

Acute dermal toxicity

LD50: > > 2,000 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:

No data available for this product.

BIO-ACCUMULATIVE POTENTIAL:

Not determined.

MOBILITY IN SOIL:

Not determined.

OTHER ADVERSE EFFECTS:

Not known.

ECOTOXICOLOGICAL OTHER INFORMATION:

No data available for this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of according to local, state, and federal regulations through a licensed disposal facility.

14. TRANSPORT INFORMATION

UN NUMBER: NA3082

DATE PRINTED	11/7/2019
SDS REF. No :	#SC500TCB

UN PROPER SHIPPING NAME: Other regulated substances, liquid, n.o.s. (contains Hexamethylene-1,6-Diisocyanate)

TRANSPORT HAZARD CLASS:

9

TRANSPORT HAZARD SUBCLASS:

Not applicable.

PACKING GROUP: III

MARINE POLLUTANT Y/N:

No

SPECIAL PRE-CAUTIONS: Reportable Quantity (RQ) 39998 lbs.

When in individual containers of less than the Product RQ, this material ships as non-regulated.

15. REGULATORY INFORMATION

U.S. REGULATIONS:

All components of this product are listed on or exempt from the TSCA Inventory.

U.S. SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: No

PRESSURE GENERATING: No

REACTIVITY: No

ACUTE: Yes

CHRONIC: Yes

313 REPORTABLE INGREDIENTS:

313 REPORTABLE INGREDIENTS

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: No reportable components

STATE REGULATIONS:

No components are known to be on the California Proposition 65 list.

Massachusetts Right To Know Components

Pennsylvania Right To Know Components

Chemical Name	CAS
Hexane, 1,6-diisocyanato-, homopolymer	28182-81-2

New Jersey Right To Know Components

Chemical Name	CAS
Hexane, 1,6-diisocyanato-, homopolymer	28182-81-2

OTHER GOVT. REGULATIONS: No other information available

16. OTHER INFORMATION

DATE CREATED	11-07-19
---------------------	----------

MANUFACTURER DISCLAIMER: The information contained herein is accurate to the best of our knowledge. Dudick, Inc. makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances and with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. 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

DATE PRINTED	11/7/2019
SDS REF. No :	#SC500TCB

responsibility of the user to ensure that he/she has all of the current data and MSDS relevant to the material thereon and to comply with all Federal, State and Local Regulations.

CONFIDENTIAL