Omega Concrete Countertop Sealer™

Safety Data Sheet for Part B

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Omega Concrete Countertop Sealer™, Part B**
PRODUCT CODES: **OMEGA-B**

MANUFACTURER: **The Concrete Countertop Institute**
STREET ADDRESS: **2810 Yonkers Rd Suites 5A & 5C**
Raleigh, NC 27604

INFORMATION PHONE: **919-275-2121**
EMERGENCY PHONE: **Chemtrec 800-424-9300**

DATE PREPARED: **June 17, 2020**

CHEMICAL NAME OR CLASS: HDI isocyanate

SECTION 2: HAZARDS IDENTIFICATION

GHS INFORMATION:
GHS Classification: Respiratory sensitizer category 1B, Skin sensitizer category 1B, Acute toxicity inhalation category 4, Specific target organ toxicity single exposure category 3, Specific target organ toxicity – repeated exposure category 2, Acute hazard to aquatic environment category 3
GHS Label Elements: Health Hazard, Exclamation Mark

HAZARD STATEMENTS:
Danger: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Warning: May cause an allergic skin reaction
Warning: Harmful if inhaled
Warning: May cause respiratory irritation.
Warning: May cause damage to organs (lungs) through prolonged or repeated exposure.
Harmful to aquatic life

PRECAUTIONARY STATEMENTS:
Precautionary statements:
- P102 Keep out of reach of children
- P103 Read label before use
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P284 Wear respiratory protection.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves and clothing to prevent skin contact.
- P271 Use only outdoors or in a well-ventilated area

Response:
- P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.
- P302 + P352 IF ON SKIN: wash with plenty of soap and water
- P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention
- P362 + P364 take off contaminated clothing and wash it before reuse
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P314 Get medical advice/attention if you feel unwell

Storage:
- P405 Store locked up
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed

Disposal:
- P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

HMIS HAZARD CLASSIFICATION:
HEALTH: 2 **FLAMMABILITY: 1** **REACTIVITY: 1** **PERSONAL PROTECTIVE EQUIPMENT: G**

POTENTIAL HEALTH EFFECTS:
EYES: Can cause severe irritation, redness, tearing, or blurred vision as well as corneal opacity and conjunctivitis. May cause temporary corneal injury.

SKIN: May cause irritation, defatting and dermatitis. May cause sensitization. Persons previously sensitized can experience allergic skin reaction.
INGESTION: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Can cause corrosive action to the mucous membranes and digestive tracts.
INHALATION: Can cause nausea and respiratory irritation, dizziness, weakness, fatigue, headache, and possible unconsciousness. Burning sensation to mucous membranes, shortness of breath and flu like symptoms may occur. As a result of previous exposures, certain individuals may develop sensitization to di-isocyanates, which may cause them to react to a later exposure. Symptoms include chest tightness, wheezing, cough, shortness of breath, or asthmatic attack. Extreme asthmatic attacks can be life threatening.
HEALTH HAZARDS (ACUTE AND CHRONIC): Can cause sensitization by exposure through contact or high concentrations of vapor. Over-exposure to this material can cause cardiac abnormalities. Overexposure can possibly cause anemia, liver abnormalities, kidney damage, or eye damage. May cause asthma or other respiratory disorders, bronchitis, emphysema, hyperactivity, and eczema.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory conditions or other allergic ailments

CARCINOGENICITY: OSHA: No, NTP: No, IARC: No
ADDITIONAL CARCINOGENICITY INFORMATION: No listed ingredients of this product are regulated as carcinogens.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
Homopolymer of HDI	28182-81-2	0.5mg/m3	none	none	60-100
Hexamethylene diisocyante (HDI)	822-06-0	none	0.005 PPM	none	<0.25

SECTION 4: FIRST AID MEASURES

GENERAL: Take off contaminated clothing and wash it before reuse.

EYES: Immediately flush with large amounts of water for at least fifteen minutes while lifting upper and lower lids. Get immediate medical attention.

SKIN: Flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs.

INGESTION: Do not induce vomiting. Ingestion or vomiting may cause aspiration into the lungs resulting in chemical pneumonitis. Keep person warm and consult a physician immediately. Give 1-2 cups of milk or water to drink.

INHALATION: Remove victim to fresh air if effects persist and administer oxygen if necessary. Obtain medical assistance. Asthmatic type symptoms may occur immediately or be delayed for several hours.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:
EYES: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversable 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: Treat symptomatically. An individual having a dermal or pulmonary sensitization reaction should be removed from further exposure to any isocyanate.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: >200+F Method used: SETA Flash

EXTINGUISHING MEDIA: Foam, alcohol foam, CO_2, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Enter confined area with full bunker gear including a positive pressure self-contained breathing apparatus (SCBA). During a fire, HDI vapors and other highly toxic vapors may be generated. Water or extreme heat may cause containers to explode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Water contamination may cause the generation of co2 and cause container to burst or explode. Extreme heat may cause container to explode. Hazardous decomposition products evolved in a fire may be irritating or toxic.

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid contact with material. Wear the appropriate safety equipment including respirator and protective clothing. Contained air respirator may be necessary. Remove all sources of ignitions. Stop spill at source, dyke area to prevent spreading. Remove all spills with spark proof equipment. For large spills, pump liquid to salvage tank. Take up the remainder with an absorbent such as clay, sand, sawdust or general-purpose binder and place in disposal containers. Do not discharge into drains or groundwater.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Observe conditions of good general hygiene and safe working practices. Contaminated leather articles cannot be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to the reuse therof.

Avoid all skin contact. Wash hands and any exposed skin with soap and water before eating, drinking, smoking, or using the toilet facilities. Keep material away from all sources of ignition.

Avoid breathing vapors generated from the material. Wear appropriate safety equipment and respirator at all times when ventilation is not sufficient to control vapors. Observe osha regulations for respirator use (29 cfr 1910.134). When spraying material, avoid exposure to all mists generated by using air supplied respirator.

STORAGE: Reseal partially used containers. Properly label all containers. Protect from freezing. Store between 5◦C (41◦F) and 35◦C (95◦F).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use a NIOSH approved respirator as required to prevent over-exposure to vapor in accordance with 29 CFR 1910.134. Engineering or administrative measures should be taken to reduce the risk and exposure. Use a positive pressure supplied air respirator when exceeding Threshold Limit Value, or if NDI monomer concentrations exceed acceptable limits, or when spraying material.

VENTILATION: Exhaust ventilation sufficient to keep airborne concentrations of HDI below their TLV and MGL maximum. See Patty's Industrial Hygiene & Toxicology - Volume I (3rd edition) Chapter 17 and Volume III (1st edition) Chapter 3 for details.

HAND PROTECTION: Neoprene or rubber impervious gloves

EYE PROTECTION: Splash proof goggles or safety glasses with side shields. Do not wear contact lenses when using this product.

SKIN PROTECTION: Clean body covering clothing as well as apron and footwear equipment should be used as deemed necessary to avoid contact with the material.

GENERAL SAFETY AND HYGIENE MEASURES: Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Eye wash fountains and safety showers must be easily accessible.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pale yellow liquid
ODOR: Negligible
ODOR THRESHHOLD: Not available
VAPOR DENSITY (AIR = 1): 5.2 X 10-9 @ 68F mm/Hg
SPECIFIC GRAVITY (H2O = 1): 1.15
BOILING POINT OR RANGE: Not available
FLASH POINT: 365F
EVAPORATION RATE: Not available
SOLUBILITY IN WATER: Negligible
pH: Not available
MELTING POINT: Not available
FREEZING POINT: Not available
VAPOR PRESSURE: Not available
AUTO IGNITION TEMPERATURE: Not available
PARTITION COEFFICIENT: n-octanol/water: Not available
DECOMPOSITION TEMPERATURE: Not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable. Avoid excessive heat or open flames as well as all sources of ignitions such as sparks, heaters, static discharges, etc.
INCOMPATIBILITY (MATERIAL TO AVOID): Avoid moisture, amines, strong bases, alcohols, metal compounds, and surface-active compounds.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: May form toxic chemicals, carbon monoxide, carbon dioxide, oxides of nitrogen, HCN and HDI.
HAZARDOUS POLYMERIZATION: Moisture or materials that react with isocyanates and temperatures above 400 degrees F may cause polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50 > 5000 mg/kg (rat)
Acute dermal toxicity: LD50 >5000 mg/m3 (rabbit)
Acute inhalation toxicity: LC550 390-453 mg/m3 aerosol, 4 hrs (rat); RD50 20.8 mg/m3
Skin irritation: Slightly irritating (rabbit, Draize)
Eye Irritation: Slightly irritating (rabbit, Draize)
Sensitization: dermal: Sensitizer (guinea pig, Maximization Test (GPMT))
Repeated Dose Toxicity: 3 weeks, inhalation: NOAEL: 3.7-4.3 mg/m3 (rat); 90 days, inhalation: NOAEL: 3.3-3.4 mg/m3 (rat)
Mutagenicity/Genetic toxicity in vitro: Ames negative (salmonella typhimurium, metabolic activation with/without)

SECTION 12: ECOLOGICAL INFORMATION

TYPE	SPECIES	LC/EC 50 (mg/L)	EXPOSURE	RESULT
Fish	Zebra fish	>100	96 hours	Acute & prolonged toxicity
Invertebrates	Water flea	>100	48 hours	Acute toxicity
Aquatic plants	Green algae	>1000	72 hours	Toxicity
Microorganisms	Activated sludge microorganisms	>1000	3 hours	Toxicity

BIODEGRADATION: 0% after 28 day exposure. No readily biodegradable.

SECTION 13: WASTE DISPOSAL

Dispose of contents and container as a hazardous waste in accordance with local, state, federal or international law. Do not reuse containers: Crush or puncture containers.

SECTION 14: TRANSPORT INFORMATION

DOT: Not Regulated. Not dangerous goods.
IMO/IMDG: Not Regulated. Not dangerous goods.
IATA: Not Regulated for air transport. Not dangerous goods.

SECTION 15: REGULATORY INFORMATION

All ingredients are on the TSCA list.

OSHA Hazcom standard rating: Hazardous.

U.S. Massachusetts RTK - Substance List, U.S. New Jersey Worker and Community Right-to-Know Act, U.S. Pennsylvania Worker and Community Right-to-Know Law:

Homopolymer of hexamethylene diisocyanate (CAS 28182-81-2)	60-100%
Hexamethylene-1,6-diisocyanate (CAS 822-06-0)	<0.25%
Hydrophilic aliphatic polyisocyanate based on hexamethylene diisocyanate (CAS trade secret)	15-25%
Hydrophilic aliphatic polyisocyanate based on hexamethylene diisocyanate (CAS trade secret)	>1%

SECTION 16: OTHER INFORMATION

DISCLAIMER: To the best of our knowledge the information contained here is accurate. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Neither the above-named manufacturer nor any of its distributors assumes any liability whatsoever for the accuracy or the completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.