

MATERIAL SAFETY DATA SHEET FOR WEBAC FLEXGEL2

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SECTION I

WEBAC AMERICA CORP.
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TRADE NAME/LABEL
WEBAC FLEXGEL 2
HYDROPHILIC GROUT

SECTION II CHEMICAL AND PHYSICAL PROPERTIES

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN

INGREDIENTS: COMPONENT OF POLYURETHANE FOAM

CHEMICAL NAME	CAS NUMBER	CONCENTRATION %
DIISOBUTYL PHTHALATE	84-69-5	<10
DIMETHYL GLUTARATE	1119-40-0	<6
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	<5
MDI		
2,4-TOLUENE DIISOCYANATE (TDI)	584-84-9	<5
2,6-TOLUENE DIISOCYANATE (TDI)	91-08-7	<2

DESCRIPTION : VISCIOUS LIQUID COLOR: MEDIUM-BROWN
ODOR: SWEET DENSITY (20 C) : 1.1 G/CM3
VAPOR DENSITY: HEAVIER THAN AIR PH AT 200G/L H2O (20 C): NOT AVAILABLE
SOLUBILITY IN WATER : SOLUBLE WATER REACTIVE MATERIAL
BOILING POINT: N/D VAPOR DENSITY: 8.5 Bulk Density: 9 lb./gal

SECTION III FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD: EXCESSIVE HEAT MAY CAUSE PRESSURE BUILD UP IN UNVENTED VESSEL.

FLASH POINT (ABEL PENSKY): 150C (300F)

FIRE FIGHTING:

EXTINGUISHING MEDIA: DRY CHEMICAL; CARBON DIOXIDE; FOAM; WATER SPRAY FOR LARGE FIRES.
SPECIAL FIRE FIGHTING PROCEDURES: FULL EMERGENCY EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS AND FRILL PROTECTIVE CLOTHING SHOULD BE WORN BY FIREFIGHTERS. DURING A FIRE, MDI VAPORS AND OTHER IRRITATING, HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. AT TEMPERATURES GREATER THAN 400 OF, ISOCYANATES CAN POLYMERIZE AND DECOMPOSE WHICH CAN CAUSE PRESSURE BUILD-UP IN CLOSED CONTAINERS. EXPLOSIVE RUPTURE IS POSSIBLE. THEREFORE, USE COLD WATER TO COOL FIRE-EXPOSED CONTAINERS. INCOMPATIBILITY: WATER, AMINES, STRONG BASES, ALCOHOLS.

SECTION IV HEALTH HAZARD DATA

PERMISSIBLE CONCENTRATIONS AIR: OSHA PEL 0.02 (C) PPM, ACGIH TWA 0.005 PPM

FIRST AID AND HEALTH EFFECTS: INHALATION:

MAY CAUSE NASAL, THROAT IRRITATION WITH A CHOKING SENSATION. NEUROLOGIC DISTURBANCES, PNEUMONITIS, HEADACHE, NAUSEA, VOMITING, AND ABDOMINAL PAIN MAY OCCUR AFTER EXTREME EXPOSURE. FIRST AID- REMOVE FROM EXPOSURE.

SKIN CONTACT: DIRECT CONTACT MAY PRODUCE IRRITATION. PROLONGED CONTACT MAY RESULT IN ECZEMA AND SENSITIZATION DERMATITIS. FIRST AID- WASH AFFECTED AREAS WITH SOAP AND WATER UNTIL NO EVIDENCE OF CONTAMINATION REMAINS. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

EYE CONTACT: VAPORS MAY CAUSE IRRITATION AND CONJUNCTIVITIS. DIRECT CONTACT MAY CAUSE IRRITATION, PAIN, LACRIMATION, AND POSSIBLE CORNEAL DAMAGE AND OPACITY. FIRST AID- WASH EYES WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

INGESTION: DIRECT CONTACT MAY CAUSE SEVERE IRRITATION SORE THROAT, ABDOMINAL PAIN AND DIARRHEA. FIRST AID- IF CORROSION IS EVIDENT, DO NOT INDUCE VOMITING; REMOVE BY GASTRIC LAVAGE. GET MEDICAL ATTENTION IMMEDIATELY.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: ASTHMA, OTHER RESPIRATORY DISORDERS (BRONCHITIS, EMPHYSEMA, BRONCHIAL HYPERREACTIVITY), SKIN ALLERGIES, ECZEMA.

TOXICITY:

POLYISOCYANATE IS AN EYE, RESPIRATORY, AND SKIN IRRITANT, SKIN SENSITIZER, AND PULMONARY SENSITIZER. EXPOSURE Limits: For MDI or TDI OSHA PEL: 0.02 ppm ceiling; ACGIH TLV: 0.005 ppm (0.051 mg/m³) Time Weighted Average (TWA).

SECTION V: SPECIAL PROTECTION INFORMATION:

VENTILATION: MECHANICAL GENERAL/LOCAL EXHAUST VENTILATION TO CONTROL VAPOR OR MISTS BELOW MAXIMUM EXPOSURE LIMITS

CLOTHING: APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT SKIN CONTACT WITH THE SUBSTANCE.

GLOVES: APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE.

EYE PROTECTION: SAFETY GOGGLES AND A FACE SHIELD TO PREVENT CONTACT WITH THE SUBSTANCE. THE EMPLOYER SHALL PROVIDE AN EYE-WASH FOUNTAIN WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE. EDUCATE AND TRAIN EMPLOYEES IN SAFE USE OF PRODUCT. FOLLOW ALL LABEL INSTRUCTIONS.

SECTION VI HANDLING OF SPILLS OR LEAKS

COVER SPILLS WITH INERT ABSORBENT MATERIAL SUCH AS CLAY OR VERMICULITE. TRANSFER TO WASTE DISPOSAL CONTAINER. DISPOSAL MUST BE MADE CONSISTENT WITH FEDERAL, STATE AND LOCAL REGULATIONS. DISTRIBUTOR/MANUFACTURER IS NOT RESPONSIBLE FOR DISPOSAL OF CONTAINERS. EVACUATE AND VENTILATE SPILL AREA. DIKE SPILL TO PREVENT ENTRY INTO WATER SYSTEM. WEAR FULL PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY EQUIPMENT DURING CLEAN UP. IF TEMPORARY CONTROL OF ISOCYANATE VAPOR IS REQUIRED, A BLANKET OF PROTEIN FOAM (AVAILABLE AT MOST FIRE DEPARTMENTS) MAY BE PLACED OVER THE SPILL. LARGE QUANTITIES MAY BE PUMPED INTO CLOSED, BUT NOT SEALED, CONTAINERS FOR DISPOSAL. MINOR SPILL: ABSORB ISOCYANATES WITH SAWDUST OR OTHER ABSORBENT, SHOVEL INTO SUITABLE UNSEALED CONTAINERS, TRANSPORT TO WELL VENTILATED AREA (OUTSIDE) AND TREAT WITH LARGE AMOUNTS OF WATER. ALLOW TO STAND UNCOVERED FOR 48 HOURS TO LET CO₂ GAS ESCAPE. CLEAN UP: DECONTAMINATE FLOOR WITH WATER, LETTING STAND FOR AT LEAST 15 MINUTES.

SECTION VII SPECIAL PRECAUTIONS, STORAGE, DISPOSAL

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID CONTACT WITH MOISTURE, MATERIAL MAY REACT AND GENERATE CO₂. STORE BETWEEN 60 AND 85 DEGREES F. If container is exposed to high heat, 400 OF (204 OC) it can become pressurized and possibly rupture. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION VIII TRANSPORTATION

DOT: NOT REGULATED

SECTION IX PRECAUTIONARY COMMENTS

THE FOAM PRODUCED IS AN ORGANIC MATERIAL AND MUST NOT BE LEFT EXPOSED OR UNPROTECTED. SHIELD THE FOAM FROM HEAT OR SPARKS WITH A THERMAL BARRIER.

SECTION X FEDERAL AND OTHER REGULATORY INFORMATION

OSHA STATUS: HAZARDOUS

TSCA STATUS: ON TSCA INVENTORY

SARA TITLE III:

SECTION 302:

2,4-TOLUENE DIISOCYANATE CAS# 584-84-9; UPPER BOUND 5%

2,6-TOLUENE DUSOCYANATE CAS# 91-08-7, UPPER BOUND 2%

SECTION 311/312 HAZARD CATEGORIES: IMMEDIATE HEALTH HAZARD; DELAYED HEALTH HAZARD; REACTIVE HAZARD

SECTION 313:

4,4' -DIPHENYLMETHANE DUSOCYANATE,CAS# 101-68-8; UPPER BOUND 5%

2,4-TOLUENE DIISOCYANATE CAS# 584-84-9; UPPER BOUND 5%

2,6-TOLUENE DIISOCYANATE CAS# 91-08-7, UPPER BOUND 2%

2,4-TOLUENE DUSOCYANATE (CAS# 584-84-9): NTP ANTICIPATED CARCINOGEN, IARC POSSIBLE HUMAN CARCINOGEN (GROUP

2B), 2,6-TOLUENE DUSOCYANATE (CAS# 91-08-7): IARC POSSIBLE HUMAN CARCINOGEN (GROUP 2B)

NFPA 704 M RATINGS: HEALTH 3 FLAMMABILITY 1 REACTIVITY 1 OTHER

0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE, 3 = HIGH, 4 = EXTREME

HMS RATINGS: HEALTH 3* FLAMMABILITY 1 REACTIVITY 1

0 = MINIMAL, 1 = SLIGHT, 2 = MODERATE, 3 = SERIOUS, 4 = SEVERE

* = CHRONIC HEALTH HAZARD

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