

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

ISOCY

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FLASH POINT: 390 F

METHOD USED: PMCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A

UPPER: N/A

EXTINGUISHING MEDIA:

DRY CHEMICAL, CARBON DIOXIDE, FOAM, WATER SPRAY FOR LARGE FIRES.

SPECIAL FIREFIGHTING PROCEDURES

FULL EMERGENCY EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING SHOULD BE WORN BY FIRE FIGHTERS. DURING A FIRE ISOCYANATE MONOMER VAPORS AND OTHER IRRITATING, HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION.

UNUSUAL FIRE AND EXPLOSION HAZARDS

AT TEMPERATURES GREATER THAN 400F ISOCYANATES CAN POLYMERIZE AND DECOMPOSE WHICH CAN CAUSE PRESSURE BUILDUP IN CLOSED CONTAINERS. EXPLOSIVE RUPTURE IS POSSIBLE. THEREFORE, USE COLD WATER TO COOL FIRE EXPOSED CONTAINERS.

===== SECTION V - REACTIVITY DATA =====

STABILITY:

STABLE

CONDITIONS TO AVOID

EXCESSIVE HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID)

WATER, AMINES, STRONG BASES, AND ALCOHOLS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, TRACES OF HYDROGEN CYANIDE, ISOCYANATE MONOMER VAPORS.

HAZARDOUS POLYMERIZATION:

[X] MAY OCCUR [] WILL NOT OCCUR THROUGH CONTACT WITH MOISTURE, OTHER MATERIALS WHICH REACT WITH ISOCYANATES, OR TEMPERATURES ABOVE 400F MAY CAUSE POLYMERIZATION.

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

CONCENTRATIONS OF ISOCYANATE VAPORS ABOVE THE TLV CAN IRRITATE THE MUCOUS MEMBRANES IN THE RESPIRATORY TRACT CAUSING RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, REDUCED LUNG FUNCTION, AND PULMONARY EDEMA. REPEATED OVEREXPOSURE OR A SINGLE LARGE DOSE CAN RESULT IN ISOCYANATE SENSITIZATION. THESE SYMPTOMS CAN BE DELAYED UP TO SEVERAL HOURS AFTER EXPOSURE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

ISOCYANATES REACT WITH SKIN PROTEIN AND MOISTURE AND CAN CAUSE IRRITATION. PROLONGED CONTACT CAN RESULT IN SKIN SENSITIZATION. VAPORS CAN CAUSE BURNING IN EYES AND IF LEFT UNTREATED, CAN CAUSE CORNEAL DAMAGE.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

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SKIN ABSORPTION MAY BE HARMFUL. MAY CAUSE SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES. MAY CAUSE PAIN, ITCHING, DISCOMFORT OR DERMITITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INGESTION CAN RESULT IN IRRITATION AND CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT. SYMPTOMS CAN INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA.

HEALTH HAZARDS (ACUTE AND CHRONIC)

MAY BE IRRITATING TO EYES, SKIN AND MUCOUS MEMBRANES. MAY CAUSE REDNESS, SWELLING OR DERMITITIS. PROLONGED CONTACT OR VAPOR OVEREXPOSURE MAY CAUSE ALLERGIC REACTIONS, SENSITIZATION, COUGHING OR SORE THROAT.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

ASTHMA, OTHER RESPIRATORY DISORDERS (BRONCHITIS, EMPHYSEMA, BRONCHIAL HYPER ACTIVITY), SKIN ALLERGIES, ECZEMA.

EMERGENCY AND FIRST AID PROCEDURES

FOR EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION. FOR SKIN, REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY WITH SOAP AND WATER. FOR INHALATION, MOVE VICTIM TO FRESH AIR, ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. SEEK MEDICAL ATTENTION. FOR INGESTION, DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK OR WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT PHYSICIAN.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

EVACUATE AND VENTILATE SPILL AREA; DIKE SPILL TO PREVENT ENTRY INTO WATER SYSTEM. WEAR FULL PROTECTIVE EQUIPMENT. ABSORB WITH INERT MATERIAL. SPILL CAN BE NEUTRALIZED WITH THE FOLLOWING SOLUTION (90% WATER, 8% AMMONIA, 2% DETERGENT). ADD ABOUT 10 PARTS OF NEUTRALIZER PER PART OF ISOCYANATE. SCOOP INTO DISPOSAL CONTAINERS. DO NOT SEAL WASTE CONTAINERS AS CO2 EVOLUTION CAN CAUSE PRESSURE BUILDUP AND CONTAINER RUPTURE.

WASTE DISPOSAL METHOD

INCINERATE OR BURY IN LANDFILL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. INCINERATION IS THE PREFERRED METHOD OF DISPOSAL.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE IN TIGHTLY CLOSED CONTAINERS TO PREVENT MOISTURE CONTAMINATION. CARE SHOULD BE TAKEN TO AVOID CONTACT WITH SKIN AND EYES. DO NOT BREATHE AEROSOLS OR VAPORS. KEEP AWAY FROM FOOD AND DRINK.

OTHER PRECAUTIONS

DISPOSE OF ALL CONTAMINATED LEATHER ITEMS. LEATHER CANNOT BE DECONTAMINATED.

===== SECTION VIII - CONTROL MEASURES =====

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EPIC RESINS GIVES ALL INFORMATION HEREIN CONTAINED IN GOOD FAITH. DUE TO DIFFERENT APPLICATIONS, THE END USER SHOULD MAKE THE FINAL DETERMINATION AS TO THE PROPER EQUIPMENT AND CONTROLS TO BE USED WITH THIS PRODUCT.

RESPIRATORY PROTECTION

SELF-CONTAINED OR AIR SUPPLIED RESPIRATOR WITH FULL FACE PIECE WHERE TLV IS EXCEEDED. CARTRIDGE RESPIRATORS ARE NOT RECOMMENDED DUE TO THE POOR WARNING PROPERTIES OF ISOCYANATES. EXPOSED PERSONS WILL NOT BE ABLE TO SMELL THE MATERIAL UNTIL THE TLV HAS BEEN EXCEEDED.

VENTILATION

LOCAL EXHAUST.

PROTECTIVE GLOVES

PERMEATION RESISTANT GLOVES (BUTYL RUBBER, NITRILE RUBBER, PVC OR POLYVINYL ALCOHOL).

EYE PROTECTION

GLASSES WITH SIDE SHIELDS, CHEMICAL SPLASH GOGGLES AND/OR FACE SHIELD.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

EYE WASH STATION AND SAFETY SHOWER. IMPERVIOUS CLOTHING.

WORK/HYGIENIC PRACTICES

WASH AT THE END OF EACH WORKSHIFT AND BEFORE EATING, DRINKING, SMOKING OR USING THE RESTROOM. PROMPTLY REMOVE CLOTHING THAT BECOMES CONTAMINATED. EXAMINE PROTECTIVE GLOVES BEFORE USING. LAUNDRY OR PROPERLY DISPOSE CONTAMINATED CLOTHING ARTICLES.

===== SECTION IX - OTHER INFORMATION =====

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY EXPRESSED OR IMPLIED IS MADE. EPIC RESINS URGES USERS OF THIS PRODUCT TO EVALUATE ITS SUITABILITY AND COMPLIANCE WITH LOCAL REGULATIONS AS EPIC RESINS CANNOT FORESEE THE FINAL USE OF THE PRODUCT, NOR THE FINAL LOCATION OF USAGE.