

Item # 6358

ITEM: 4UK09 - Adhesive Epoxy

PICK REQ: 1023854335

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A3962

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - A3962

Associated Grainger Item: 4UK09 - Adhesive Epoxy

HENKEL LOCTITE CORPORATION

10/20/02

ROCKY HILL CONNECTICUT 06067
EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

HYSOL E-20HP EPOXY ADHESIVE HARDENER OFF-WHITE

29314 HARDENER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HYSOL E-20HP EPOXY ADHESIVE HARDENER OFF-WHITE

ITEM NO.: 29314 HARDENER

PART OF KIT: 29314

PRODUCT TYPE: EPOXY HARDENER

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NO.	%
SUBSTITUTED POLYAMINE	PROPRIETARY	30-60
SUBSTITUTED POLYAMINE	PROPRIETARY	30-60
ADDITIVE	PROPRIETARY	5-10
SUBSTITUTED AMINOPHENOL	PROPRIETARY	1-5
DIETHYLENEGLYCOL MONOETHYL ETHER*	111-90-0	1-5
GLYCERINE	56-81-5	1-5
MODIFIED SILICON DIOXIDE	68611-44-9	1-5

* THIS COMPONENT IS LISTED AS A SARA SECTION 313 TOXIC CHEMICAL.

THE FOLLOWING NUMBERS HAVE BEEN USED TO REGISTER COMPONENTS OF THIS PRODUCT
TRADE SECRETS FOR THE STATE OF NEW JERSEY:
NJ TRSN 06-070-1067-5054P
NJ TRSN 06-070-1067-5055P
NJ TRSN 06-070-1067-5052P
NJ TRSN 06-070-1067-5056P

INGREDIENTS WHICH HAVE EXPOSURE LIMITS:

EXPOSURE LIMITS (TWA) INGREDIENTS	ACGIH (TLV)	OSHA (PEL)	OTHER
GLYCERINE	10 MG/M3 TWA MIST	10 MG/M3 MIST DUST 5 MG/M3 MIST RESP	NONE
MODIFIED SILICON DIOXIDE	10 MG/M3 (INHAL) 3 MG/M3 (RESP)	20 MPPCF	6 MG/M3
EXPOSURE LIMITS (STEL) INGREDIENTS	ACGIH (TLV)	OSHA (PEL)	

3. HAZARDS IDENTIFICATION

TOXICITY:
SEVERE EYE AND SKIN IRRITANT. MAY CAUSE BURNS OF THE EYES AND SKIN. MAY CAUSE SEVERE RESPIRATORY TRACT IRRITATION. INGESTION MAY RESULT IN SEVERE GASTRIC DISTURBANCES. INHALATION OVEREXPOSURE MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

PRIMARY ROUTES OF ENTRY: EYES, SKIN, INGESTION, INHALATION.

SIGNS AND SYMPTOMS OF EXPOSURE:
EYE AND SKIN IRRITATION. RESPIRATORY TRACT IRRITATION. INHALATION OF VAPORS MAY CAUSE HEADACHE, DIZZINESS, DROWSINESS AND INCOORDINATION.

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN

INGREDIENTS	LITERATURE REFERENCED TARGET ORGAN AND OTHER HEALTH EFFECTS	CARCINOGEN		
		NTP	IARC	OSHA
SUBSTITUTED POLYAMINE	NTO	NO	NO	NO
SUBSTITUTED POLYAMINE	NO DATA		NO	NO
ADDITIVE	NO DATA		NO	NO
SUBSTITUTED AMINOPHENOL	NO DATA		NO	NO
DIETHYLENEGLYCOL MONOETHYL ETHER	BLO CNS IRR KID	NO	NO	NO
GLYCERINE	BLO IRR KID NUI	NO	NO	NO
MODIFIED SILICON DIOXIDE	NTO	NO	NO	NO

ABBREVIATIONS:
BLO: BLOOD

IRR: IRRITANT
NTO: NO TARGET ORGANS
CNS: CENTRAL NERVOUS SYSTEM
KID: KIDNEY
NUI: NUISANCE DUST

4. FIRST AID MEASURES

INGESTION:
DO NOT INDUCE VOMITING. KEEP INDIVIDUAL CALM. OBTAIN MEDICAL ATTENTION.

INHALATION:
REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

SKIN CONTACT:
FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. OBTAIN MEDICAL ATTENTION.

EYE CONTACT:
FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

FLASH POINT: MORE THAN 200 DEG. F
METHOD: SETAFLASH

RECOMMENDED EXTINGUISHING AGENTS:
WATER FOG, CARBON DIOXIDE, FOAM, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES: NOT AVAILABLE

HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMP:
OXIDES OF CARBON, OXIDES OF NITROGEN, HYDROGEN FLUORIDE, AMMONIA, IRRITATING VAPORS.

UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE

EXPLOSIVE LIMITS:
(% BY VOLUME IN AIR) LOWER: NOT AVAILABLE
(% BY VOLUME IN AIR) UPPER: NOT AVAILABLE

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:
REMOVE SOURCES OF IGNITION. MAINTAIN ADEQUATE VENTILATION. WEAR BUTYL RUBBER PROTECTIVE CLOTHING. AVOID SKIN CONTACT. SCRAPE UP AS MUCH AS POSSIBLE. STORE IN A CLOSED CONTAINER UNTIL DISPOSAL. CLEAN RESIDUE WITH SOAP AND WATER.

7. HANDLING AND STORAGE

SAFE STORAGE:
STORE IN A COOL, DRY PLACE IN CLOSED CONTAINERS. KEEP AWAY FROM IGNITION SOURCES AND HIGH TEMPERATURES.

(CONTACT LOCTITE CUSTOMER SERVICE 1-800-243-4874 FOR SHELF LIFE INFORMATION)

HANDLING:
AVOID SKIN OR EYE CONTACT. AVOID BREATHING VAPORS. DO NOT USE NEAR SOURCES OF IGNITION.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EYES: SAFETY GLASSES OR GOGGLES.

SKIN: BUTYL RUBBER GLOVES.

VENTILATION: GENERAL AND LOCAL EXHAUST VENTILATION.

RESPIRATORY:
NOT REQUIRED UNDER NORMAL CONDITIONS WHEN WORKPLACE IS PROPERLY VENTILATED.

SEE SECTION 2 FOR EXPOSURE LIMITS.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: YELLOW LIQUID.

ODOR: MILD

BOILING POINT: NOT DETERMINED

pH: DOES NOT APPLY

SOLUBILITY IN WATER: PARTIAL

SPECIFIC GRAVITY: 1.15

VOLATILE ORGANIC COMPOUND (EPA METHOD 24):
4.87%; 55.95 GRAMS/LITER
(3.16% TESTED AS MIXED WITH RESIN)

VAPOR PRESSURE: NOT AVAILABLE

VAPOR DENSITY: NOT AVAILABLE

EVAPORATION RATE (ETHER = 1): NOT AVAILABLE

10. STABILITY AND REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBILITY: OXIDIZERS, MINERAL ACIDS.
CONDITIONS TO AVOID: NOT AVAILABLE
HAZARDOUS DECOMPOSITION PRODUCTS (NON-THERMAL): NONE

11. TOXICOLOGICAL INFORMATION

SECTION 3.

12. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS

RECOMMENDED METHODS OF DISPOSAL:
INCINERATE FOLLOWING EPA AND LOCAL REGULATIONS.
EPA HAZARDOUS WASTE NUMBER:
NH - NOT A RCRA HAZARDOUS MATERIAL FOR DISPOSAL

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172):
DOMESTIC GROUND TRANSPORT:
PROPER SHIPPING NAME:
CONSUMER COMMODITY (NOT MORE THAN ONE LITER); AMINES, LIQUID CORROSIVE,
N.O.S. (CONTAINS SUBSTITUTED POLYAMINE) (MORE THAN ONE LITER)
HAZARD CLASS OR DIVISION:
ORM-D (NOT MORE THAN ONE LITER);
CLASS 8, PACKING GROUP II (MORE THAN ONE LITER)
IDENTIFICATION NUMBER:
NONE (NOT MORE THAN ONE LITER);
UN 2735 (MORE THAN ONE LITER)
MARINE POLLUTANT: NONE
IATA:
PROPER SHIPPING NAME:
AMINE, LIQUID, CORROSIVE, N.O.S. (CONTAINS SUBSTITUTED POLYAMINE)
CLASS OR DIVISION: CLASS 8, PACKING GROUP II
UN OR ID NUMBER: UN 2735

15. REGULATORY INFORMATION

CA PROPOSITION 65:
WARNING:
PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER.

16. OTHER INFORMATION

ESTIMATED NFPA(R) CODE:
HEALTH HAZARD: 2
FIRE HAZARD: 1
REACTIVITY HAZARD: 0
SPECIFIC HAZARD: DOES NOT APPLY
ESTIMATED HMIS(R) CODE:
HEALTH HAZARD: 2*
FLAMMABILITY HAZARD: 1
REACTIVITY HAZARDS: 0
PERSONAL PROTECTION: SEE SECTION 8.
NFPA IS A REGISTERED TRADEMARK OF THE NATIONAL FIRE PROTECTION ASSN.
HMIS IS A REGISTERED TRADEMARK OF THE NATIONAL PAINT AND COATINGS ASSN.
PREPARED BY: GARY PIERSON
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REVISION DATE: JANUARY 09, 2001
REVISION: 0006

ORDER: 1023854335

ITEM: 4UK09 - Adhesive Epoxy

HAZMAT: 4UK09

HAZARD MATERIAL WARNING SHEET (HAZMAT)

When shipment is complete, retain for daily Hazmat audit

GRAINGER SHIPPING INFORMATION

STOCK # : 4UK09
MSDS # : A3962
FREIGHT CODE : 0800
DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D

UPS RESTRICTIONS : 20 LB. & UNDER REQUIRES 200 LB. BSC/32 ECT, 21 LB. & OVER REQUIRES 275 LB. BSC/44 ECT.

HAZARDOUS CLASS NUMBER : ORM-D
UN ID # :
PACKING GROUP :
SHIPPING LABEL : Consumer Commodity ORM-D

LIMITED QUANTITY : YES
CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON
DOT/UPS EXEMPTION NO. :
COMMENTS : HAZARDOUS MATERIAL. DO NOT SHIP AIR!!
SHIPPING-PAPERS :

PLACARD OFFERED ? YES () NO () PLEASE MARK ONE
