

***** SECTION 1: PRODUCT IDENTIFICATION

MANUFACTURERS ADDRESS : 2841 S. ASHLAND AVE., CHICAGO, IL 60608
MFG TELEPHONE NUMBER : (773) 890-0014
24 HR EMERGENCY PHONE NO : 1-800-228-5635
CHEMICAL NAME OR FAMILY : COATINGS PRODUCT
FORMULA : NOT APPLICABLE
TRADE NAME : 38 2423 UR-2 DURACURE
REVISION DATE : 08-25-97 DATE PRINTED : 03-02-98

***** SECTION 2: HAZARDOUS INGREDIENTS

NAME	WT %	
COMMON(NA):POLYURETHANE RESIN	40%	TLV TWA NOT ESTAB TLV STEL NOT ESTAB OSHA PEL NOT ESTAB CEILING NOT ESTAB RECOMND NOT ESTAB
CAS:68259 30 3 CHEMICAL: 1,3 BUTANEDIOL, POLYMER WITH 1,3-DIISOCYANATO-2-METHYLBENZENE, 2,4- DIISOCYANATO-1-METHYLBENZENE, 2-ETHYL-2- (HYDROXYMETHYL)-1,3-PROPANEDIOL		
COMMON(NA):PROPYLENE GLYCOL MONO METHYL ETHER AC ETATE	5%	TLV TWA NOT ESTAB TLV STEL NOT ESTAB OSHA PEL NOT ESTAB CEILING NOT ESTAB RECOMND NOT ESTAB
CAS:108-65-6 CHEMICAL: 2-PROPANOL, 1-METHOXY-, A CETATE		
*COMMON(1):ETHYLBENZENE	10%	TLV TWA 100.00 PPM TLV STEL 125.00 PPM OSHA PEL 100.00 PPM CEILING NOT ESTAB RECOMND NOT ESTAB
CAS:100-41-4 CHEMICAL: BENZENE, ETHYL		
*COMMON(NA):XYLENE	45%	TLV TWA 100.00 PPM TLV STEL 150.00 PPM OSHA PEL 100.00 PPM CEILING NOT ESTAB RECOMND NOT ESTAB
CAS:1330-20-7 CHEMICAL: PHENYL, DIMETHYL		

CHEMICALS NOTED WITH A (*) ARE REPORTABLE UNDER SECTION 313 OF SARA TITLE III

(1) = THIS MATERIAL IS A CARCINOGEN PER NTP

ALL COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH U.S. TSCA CHEMICAL
SUBSTANCE INVENTORY REQUIREMENTS.

***** SECTION 3: PHYSICAL DATA

BOILING POINT: 277 DEG F.
VAPOR PRESSURE MM HG AT 90 DEG F: 10.0
VAPOR DENSITY (AIR = 1.0): 4.6
SPECIFIC GRAVITY: 0.98
PERCENT VOLATILE BY VOLUME: 64.43
EVAPORATION RATE (BUTYL ACETATE = 1): 1.1
SOLUBILITY IN WATER: NO

***** SECTION 4: FIRE AND EXPLOSION HAZARD

FLASH POINT TCC/PM DEG F : 81
LOWER EXPLOSIVE LIMIT : 1.00
UPPER EXPLOSIVE LIMIT : 13.00

EXTINGUISHING MEDIA: IN CASE OF FIRE, USE WATER SPRAY (FOG), ALCOHOL FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.
WATER MAY BE INEFFECTIVE. WATER SPRAY (FOG) MAY BE USED TO COOL CONTAINERS.

SPECIAL FIRE FIGHTING PROCEDURES:

FIRE FIGHTERS MUST WEAR SELF CONTAINED BREATHING APPARATUS OR AIR MASKS.
CONTAINERS EXPOSED TO FIRE SHOULD BE KEPT COOL WITH WATER SPRAY.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS:

CLOSED CONTAINERS MAY EXPLODE DUE TO BUILD UP OF PRESSURE WHEN EXPOSED TO HEAT.

***** SECTION 5: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NOT REQUIRED FOR MIXTURE.

EFFECTS OF OVEREXPOSURE:

IMMEDIATE EFFECTS (ACUTE):

CAN BE ABSORBED THROUGH THE SKIN.
HARMFUL IF INHALED. MAY AFFECT THE BRAIN, NERVOUS SYSTEM OR RESPIRATORY SYSTEM, CAUSING DIZZINESS, HEADACHE, NAUSEA OR RESPIRATORY IRRITATION.

AS A RESULT OF PREVIOUS EXPOSURES OR A LARGE SINGLE DOSE CERTAIN INDIVIDUALS WILL DEVELOP ISOCYANATE SENSITIZATION (CHEMICAL ASTHMA) WHICH WILL CAUSE THEM TO REACT TO SUBSEQUENT EXPOSURES TO ISOCYANATES BELOW THE TLV. SYMPTOMS ARE WHEEZING, COUGH, SHORTNESS OF BREATH OR ASTHMATIC ATTACK. INDIVIDUALS MAY DEVELOP LUNG SENSITIVITY WHICH MAY PERSIST FOR LONG PERIODS. MAY CAUSE LUNG DAMAGE OR IMPAIRMENT. SENSITIZATION MAY BE TEMPORARY OR PERMANENT.

OVEREXPOSURE TO INGREDIENTS IN THIS PRODUCT MAY CAUSE NOSE AND THROAT IRRITATION, EYE IRRITATION, SKIN IRRITATION, LIVER DAMAGE, KIDNEY DAMAGE.

DELAYED EFFECTS (CHRONIC):

NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

CONTAINS ETHYLBENZENE, WHICH HAS BEEN DETERMINED BY NTP TO BE AN ANIMAL CARCINOGEN WITH NO KNOWN RELEVANCE TO HUMANS.

CONTAINS INGREDIENTS WHICH MAY CAUSE LIVER DAMAGE, KIDNEY DAMAGE, MUCOUS MEMBRANE IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE - ANY RESPIRATORY OR SKIN CONDITION.

***** SECTION 5: HEALTH HAZARD DATA *****CONTINUED*****
EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION.
SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER.
INHALATION: IF AFFECTED BY INHALATION OF VAPOR OR SPRAY MIST, REMOVE TO FRESH AIR.
SWALLOWING: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. IF AVAILABLE, GIVE SEVERAL GLASSES OF MILK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

POSSIBLE ROUTES OF ENTRY: INHALATION, INGESTION, SKIN ABSORPTION.

***** SECTION 6: REACTIVITY DATA *****

THIS PRODUCT IS STABLE
CONDITIONS TO AVOID: NONE
INCOMPATIBILITY: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON DIOXIDE/MONOXIDE

HAZARDOUS POLYMERIZATION: NONE

***** SECTION 7: SPILL OR LEAK PROCEDURES *****

VENTILATE AREA. AVOID BREATHING OF VAPORS. USE SELF-CONTAINED BREATHING APPARATUS OR AIRMASK FOR LARGE SPILLS IN A CONFINED AREA. ELIMINATE IGNITION SOURCES. REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. AVOID CONTACT WITH EYES.

WASTE DISPOSAL METHOD:
DISPOSE IN CHEMICAL DISPOSAL AREA OR IN A MANNER THAT COMPLIES WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

***** SECTION 8: SPECIAL PROTECTION INFORMATION *****

RESPIRATORY PROTECTION:
IF THE PRODUCT IS SPRAYED RESPIRATORY EQUIPMENT SHOULD BE USED. UNLESS AIR MONITORING DEMONSTRATES VAPOR/MIST LEVELS ABOVE APPLICABLE LIMITS, NO RESPIRATOR IS REQUIRED. IF RESPIRATOR IS REQUIRED, THE APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) SHOULD BE WORN DURING APPLICATION. FOLLOW RESPIRATOR MANUFACTURERS DIRECTIONS FOR RESPIRATOR USE.

VENTILATION:
REQUIRED WHEN SPRAYING OR APPLYING IN CONFINED AREA.

PROTECTIVE CLOTHING:
WHILE DISPENSING PRODUCT BEFORE DILUTION PROTECT EYES AND SKIN BY WEARING CHEMICAL RESISTANT GLOVES, IMPERVIOUS CLOTHING AND SHOES. WEAR CHEMICAL GOGGLES WITH SPLASH SHIELDS (OR FACE SHIELD.) AFTER DILUTION PROTECT HANDS WITH IMPERVIOUS GLOVES AND IF THERE IS A POTENTIAL FOR SPLASHING WEAR SAFETY SAFETY GOGGLES WITH SPLASH SHIELDS. IF THE PRODUCT IS SPRAYED AND AIR BORNE MIST OR VAPOR IS PRESENT WEAR A NIOSH/MSHA APPROVED RESPIRATOR. USE NORMAL WORK CLOTHING COVERING ARMS AND LEGS.

***** SECTION 8: SPECIAL PROTECTION INFORMATION ****CONTINUED****

IT IS GENERALLY RECOGNIZED THAT CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH CHEMICALS BECAUSE CONTACT LENSES MAY CONTRIBUTE TO THE SEVERITY OF AN EYE INJURY IN CASE OF EXPOSURE.

***** SECTION 9: SPECIAL PRECAUTIONS *****

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT STORE ABOVE 120 DEG F. BASED ON THE PRODUCT FLASH POINT AND VAPOR PRESSURE SUITABLE STORAGE SHOULD BE PROVIDED IN ACCORDANCE WITH OSHA REGULATION 1910. 106. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE, INCLUDING FLAMABLE OR EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR CONTAINER. ALL LABEL WARNINGS MUST BE OBSERVED UNTIL THE CONTAINER HAS BEEN CLEANED OR RECONDITIONED.

ABBREVIATIONS USED:

OSHA-OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION;
IARC-INTERNATIONAL AGENCY FOR RESEARCH ON CANCER; LEL-LOWER EXPLOSIVE LIMITS;
UEL-UPPER EXPLOSIVE LIMITS; MG CU M-MILLIGRAMS PER METERS CUBED; MM-MILLIMETERS
MPPCF-MILLIONS OF PARTICLES PER CUBIC FOOT; MSHA-MINE SAFETY AND HEALTH
ADMINISTRATION; NA-NOT APPLICABLE; NIOSH-NATIONAL INSTITUTE OF OCCUPATIONAL
SAFETY AND HEALTH; NOT EST-NOT ESTABLISHED; NTP-NATIONAL TOXICOLOGY PROGRAM;
PB-LEAD; PEL-PERMISSIBLE EXPOSURE LEVEL; PPM-PARTS PER MILLION;
TCC/PM-TAG CLOSED CUP/PENSKY-MARTEN; RECM-RECOMMENDED; TLV-THRESHOLD LIMIT VALUES.

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