

MATERIAL SAFETY DATA SHEET

SEAL REMOVER

DATE: 12/31/03
SUPERSEDES: 1/22/01

HAZARD RATINGS (0-4)
FIRE 1 REACTIVITY 0
TOXICITY 2 SPECIAL

SUPPLIER: MIDLAND PRODUCTS
18600 GRAPHICS COURT TINLEY PARK, IL 60477
(708) 444-8200

TRADE NAME: SEAL REMOVER
PRODUCT TYPE: LIQUID PAINT STRIPPER
CHEMICAL FORMULA: MIXTURE
CHEMICAL NAME: N/A

COMPONENT LIST - SECTION I

<u>COMPONENT</u>	<u>CAS</u>		<u>TLV</u>	<u>TLV</u>
	<u>REG#</u>	<u>%</u>	<u>OSHA</u>	<u>ACGIH</u>
N-METHYL PYRROLIDONE*	872-50-4	75 - 95	N/E	100 ppm
PROPYLENE GLYCOL N-BUTYL ETHER	5131-66-8	< 10	N/E	N/E
HYDROGEN CHLORIDE	7647-01-0	< 0.2	5 ppm	5 ppm

*This item is subject to reporting requirements under SARA III, Section 313.

PHYSICAL PROPERTIES - SECTION II

APPEARANCE: CLEAR, STRAW COLORED LIQUID WITH FAINT MINTY ODOR
pH: 3
VISCOSITY: 210 CPS
FREEZING POINT: -25° C
BOILING POINT: 395° F
VAPOR PRESSURE: <1
VAPOR DENSITY: APPROX. 3.4
SOLUBILITY IN WATER: MISCIBLE
VOLATILE (% WT): 99
SPECIFIC GRAVITY: 1.03
EVAPORATION RATE: <1

FIRE AND EXPLOSION HAZARD - SECTION III

FLASH POINT: 196 F
LOWER EXPLOSION LIMIT: 1.3% UPPER EXPLOSION LIMIT: 9.5%
AUTO IGNITION TEMP: 518 F
EXTINGUISHING MEDIUM: FOAM, ALCOHOL FOAM, CO₂, DRY CHEMICAL, WATER SPRAY
SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTION. HEAT MAY BUILD PRESSURE & RUP-
TURE CLOSED CONTAINERS. USE WATER SPRAY/FOG FOR COOLING.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CAN REACT WITH OXIDIZING MATERIALS.

HEALTH HAZARDS - SECTION IV

THRESHOLD LIMIT VALUES: NONE ESTABLISHED
PRIMARY ROUTES OF EXPOSURE: EYE, SKIN, INHALATION
CARCINOGENS OR SUSPECTED CARCINOGENIC INGREDIENTS: NONE
EFFECTS OF OVEREXPOSURE:

IF IN EYES - CONTACT RESULTS IN EYE IRRITATION AND MAY CAUSE TEMPORARY CORNEAL CLOUD-
ING.

IF ON SKIN - MAY CAUSE IRRITATION, REDNESS AND DEFATTING.

IF INHALED - ALTHOUGH VAPOR PRESSURE IS LOW THUS MINIMIZING EXPOSURE, EXCESSIVE INHA-
LATION MAY RESULT IN HEADACHES OR DIZZINESS.

IF SWALLOWED - INGESTION OF LARGE AMOUNTS MAY CAUSE GASTRIC DISTURBANCES.

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EMERGENCY AND FIRST AID PROCEDURES:

- IF IN EYES: IMMEDIATELY RINSE WITH CLEAR WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.
- IF ON SKIN: WASH AFFECTED AREA WITH SOAP AND WATER.
- IF INHALED: GO TO FRESH AIR. AID BREATHING IF NECESSARY AND GET MEDICAL ATTENTION.
- IF SWALLOWED: DO NOT INDUCE VOMITING. GIVE LUKEWARM WATER TO DRINK. OBTAIN EMERGENCY MEDICAL ATTENTION.

REACTIVITY - SECTION V

- STABILITY: STABLE
- CONDITIONS TO AVOID: MOISTURE - PRODUCT IS HYGROSCOPIC.
- HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, NITROGEN.
- HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
- INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING AGENTS.

SPILLS OR LEAK PROCEDURE - SECTION VI

- STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 - FOR SMALL SPILLS: SOAK UP WITH ABSORBENT AND DEPOSIT IN SUITABLE CONTAINER.
 - FOR LARGE SPILLS: SHUT OFF AND ELIMINATE ALL IGNITION SOURCES; CONTAIN AND RECOVER FREE PRODUCT. ADD SAND, EARTH OR OTHER ABSORBENT MATERIAL TO SPILL AREA.
 - WASTE SHOULD BE STORED IN APPROVED SAFETY TYPE DISPOSAL CANS THAT ARE PROPERLY LABELED AS TO CONTENTS AND HAZARD.

WASTE DISPOSAL METHODS:

THIS PRODUCT IS HIGHLY BIODEGRADABLE AND MAY BE EFFECTIVELY TREATED IN INDUSTRIAL WASTE WATER TREATMENT FACILITIES USING ACTIVATED SLUDGE TECHNOLOGY. SIMILARLY, REGIONAL MUNICIPAL WASTE WATER PLANTS CAN OFTEN HANDLE DISCHARGE. NEVERTHELESS, DISPOSAL SHOULD NOT BE STARTED UNTIL APPROVAL HAS BEEN OBTAINED FROM RESPONSIBLE OPERATORS OF THE TREATMENT FACILITY. INCINERATION AT A LICENSED FACILITY IS ALSO RECOMMENDED.

SPECIAL PROTECTION - SECTION VII

- VENTILATION TYPE: LOCAL EXHAUST.
- RESPIRATORY PROTECTION: APPROVED RESPIRATORS IF VAPORS OR MISTS ARE GENERATED.
- PROTECTIVE GLOVES: BUTYL RUBBER.
- EYE PROTECTION: WEAR SPLASH GOGGLES.
- OTHER PROTECTIVE EQUIPMENT: N/A

STORAGE AND HANDLING - SECTION VIII

STORE IN DRY AREA, SHELTERED FROM WEATHER. DO NOT TAKE INTERNALLY. KEEP AWAY FROM HEAT AND FLAMES.

SHIPPING - SECTION IX

PROPER SHIPPING NAME: PAINT RELATED MATERIAL

MISCELLANEOUS - SECTION X

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| ABBREVIATIONS: | N/A: NOT APPLICABLE | UNK: UNKNOWN |
| | N/D: NOT DETERMINED | < : LESS THAN |
| | N/E: NOT ESTABLISHED | > : GREATER THAN |

PREPARED BY: JOHN ROTH