

OLIN HUNT SPECIALTY PRODUCTS INC.

A SUBSIDIARY OF OLIN CORPORATION
RET MOUNTAIN PLAZA
PATERSON, N.J. 07424

Olin Hunt**MATERIAL SAFETY DATA SHEET**
EMERGENCY NO: 1-(800)-OLIN-911

70102610
UNIVERSITY OF MINNESOTA
DEPT MEIS
2-140EE/ CS BLDG.
200 UNION STREET S.E.
MINNEAPOLIS MN 55455
ATTENTION: SAFETY DIRECTOR

SECTION-1 IDENTIFICATION

TRADE_NAME: MICROSTRIP 2001

CHEMICAL_NAME: POSITIVE PHOTORESIST STRIPPER

CHEMICAL_FAMILY: ORGANIC MIXTURE

H0408

CHEMICAL_FORMULA: MIXTURE

CHEMICAL_DESCRIPTION: CLEAR, COLORLESS LIQUID, AMMONIA ODOR

CAS_NO.: NOT ASSIGNED/MIXTURE

SECTION -2 NORMAL HANDLING PROCEDURE
*****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

HARMFUL IF SWALLOWED. AVOID CONTACT WITH EYES SKIN OR CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER. STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM ALL SOURCES OF IGNITION. AVOID CONTACT WITH OXIDIZERS. AVOID BREATHING MIST OR VAPORS.

PROTECTIVE EQUIPMENT:

EYES: GOGGLES

GLOVES: IMPERVIOUS

OTHER: FACE SHIELD, NEOPRENE COVERALLS AND BOOTS

VENTILATION REQUIRED:

LOCAL MECHANICAL EXHAUST VENTILATION RECOMMENDED TO MINIMIZE EMPLOYEE EXPOSURE.

SECTION -3 HAZARD INGREDIENTS

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BASIC MATERIAL: N-METHYL PYRROLIDONE**CAS NO.:** 872-50-4**PERCENT:** 45-55%**OSHA PEL:** NONE ESTABLISHED**LD 50:** 7000 MG/KG (ORAL-RAT)**LC 50:** NO DATA**SIGNIFICANT EFFECTS:** SKIN, EYE AND MUCOUS MEMBRANE IRRITANT.**BASIC MATERIAL:** 2-(2-AMINOETHOXY)ETHANOL**CAS NO.:** 929-06-6**PERCENT:** 40-55%**OSHA PEL:** NONE ESTABLISHED**LD 50:** 5660 MG/KG (ORAL-RAT)**LC 50:** NO DATA**SIGNIFICANT EFFECTS:** CORROSIVE TO EYES. SEVERE SKIN AND MUCOUS MEMBRANE IRRITANT.*****
SECTION -4 FIRE AND EXPLOSION HAZARD DATA
*******FLASH POINT METHOD:** 210 F (TCC)**FLAMMABLE EXPLOSIVE LIMITS:** - LOWER: 0.9%

UPPER: 11.7%

OSHA CLASSIFICATION: NOT REGULATED (IGNITABLE)**EXTINGUISHING MEDIA:** DRY CHEMICAL, CARBON DIOXIDE, FOAM.**SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURE:** WATER SPRAY SHOULD BY USED TO COOL FIRE EXPOSED CONTAINERS AND/OR TO DISPERSE VAPORS. USE NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WHEN ANY MATERIAL IS INVOLVED IN A FIRE.*****
SECTION-5 HEALTH HAZARD DATA
*******THRESHOLD LIMIT VALUE:** NONE ESTABLISHED FOR MIXTURE OR INGREDIENTS.**SYMPTOMS OF OVER EXPOSURE:** BURNS TO SKIN AND EYES, MUCOUS MEMBRANE AND RESPIRATORY IRRITATION.**EMERGENCY FIRST AID PROCEDURES****SKIN:** IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN.**EYES:** IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN.**INGESTION:** IMMEDIATELY DRINK LARGE QUANTITIES OF WATER. INDUCE VOMITING BY PUCKING FINGER DOWN THROAT, CALL A PHYSICIAN.**INHALATION:** IMMEDIATELY REMOVE VICTIM TO FRESH AIR, CALL A PHYSICIAN.

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SECTION-6 TOXICOLOGY (PRODUCT)

ACUTE_ORAL_LD_50: NO DATA FOR MIXTURE. HARMFUL IF SWALLOWED BASED ON PH.

ACUTE_DERMAL_LD_50: NO DATA FOR MIXTURE

ACUTE_INHAL_LC_50: NO DATA FOR MIXTURE

CARCINOGENIC: NOT KNOWN TO BE CARCINOGENIC

MUTAGENIC: NOT KNOWN TO BE MUTAGENIC

EYE_IRRITATION: CORROSIVE

SKIN_IRRITATION: CORROSIVE

PRINCIPAL ROUTES OF ABSORPTION: DERMAL, INHALATION

EFFECTS OF ACUTE EXPOSURE: BURNS TO SKIN AND EYES. MUCOUS MEMBRANE AND
RESPIRATORY IRRITATION.

EFFECTS OF CHRONIC EXPOSURE: NOT KNOWN

SECTION-7 SPILL OR LEAKAGE PROCEDURE (CONTROL PROCEDURES)
******** ACTION FOR MATERIAL RELEASE OR SPILL:

REMOVE ALL SOURCES OF IGNITION. WEAR NIOSH/MSHA APPROVED POSITIVE PRESSURE
SUPPLIED AIR RESPIRATOR. FOLLOW OSHA REGULATIONS FOR RESPIRATOR USE (SEE 29 CFR
1910.134). WEAR GOGGLES, NEOPRENE COVERALLS, IMPERVIOUS GLOVES AND NEOPRENE
BOOTS. ISOLATE AREA OF SPILL BY DIKING. STOP SOURCE OF LEAK. TRANSFER CONTENTS
TO NON-LEAKING CONTAINER OR STORAGE VESSEL. ADD DRY ABSORBENT. CLEAN UP AND
PLACE IN AN APPROVED DOT CONTAINER AND SEAL. WASH ALL CONTAMINATED CLOTHING
BEFORE REUSE. IN THE EVENT OF A LARGE SPILL, CALL THE EMERGENCY TELEPHONE NUMBER
SHOWN ON THE FRONT OF THIS SHEET.

SECTION-7A SPILL OR LEAKAGE PROCEDURE (WASTE)
*****WASTE DISPOSAL METHOD:

DISPOSE OF CONTAMINATED PRODUCT, EMPTY CONTAINERS AND MATERIAL USED IN CLEANING
UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE
FEDERAL, STATE AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL
PROCEDURES.

SECTION-8 SHIPPING DATA
*****CLASS:

CORROSIVE LIQUID, N.O.S., UN 1760

DOT STATEMENT: NOT APPLICABLE

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SECTION-9 REACTIVITY DATA

STABILITY STABLE: X UNSTABLE: AI: DEGREES CELSIUS, DEGREES FAHRENHEIT

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

CONDITIONS TO AVOID: STORAGE ABOVE ROOM TEMPERATURE

INCOMPATIBILITY: OXIDIZERS, ACIDS, NITROSATING MATERIALS

HAZARDOUS DECOMPOSITION PRODUCTS: NITROGEN OXIDES, AMMONIA, CARBON MONOXIDE,
CARBON DIOXIDE*****
SECTION-10 PHYSICAL DATA

MELTING POINT: NOT DETERMINED

BOILING POINT: NOT DETERMINED

SPECIFIC GRAVITY: 1.03-1.05
(WATER = 1)

VAPOR PRESSURE: 8 MM HG

SOLUBILITY IN WATER: MISCIBLE

PH FACTOR: > 12.0

VOLATILES: 100%

EVAPORATION RATE: NO DATA
(BUTYLACETATE = 1)

VAPOR DENSITY: 3.4

(AIR = 1)

SECTION-11 CANADIAN ADDENDUM

PHYSICAL DATA

ODOR: AMMONIA ODOR

ODOR THRESHOLD: NO DATA

FREEZING POINT: NO DATA

DENSITY: 1.04 GM/ML

COEFFICIENT OF WATER/OIL DISTRIBUTION: NO DATA

FIRE OR EXPLOSION HAZARD

AUTO-IGNITION TEMPERATURE: NO DATA

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: NONE

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: YES

TOXICOLOGICAL PROPERTIES

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SENSITIZATION TO PRODUCT:
NOT A SENSITIZER

REPRODUCTIVE TOXICITY:
NOT KNOWN OR REPORTED

TERATOGENICITY:
NOT KNOWN OR REPORTED

NAME OF TOXICOLOGICALLY-SYNERGISTIC PRODUCT:
NONE KNOWN

INFORMATION FURNISHED BY: OLIN MSDS CONTROL GROUP DATE: MAY 16, 1989

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