

MATERIAL SAFETY DATA SHEET

I. PRODUCT NAME AND MANUFACTURER

PRODUCT NAME: ADHESIVE STRIPPER FORMULA 970-1

MSDS # 200001

MATTHEWS INTERNATIONAL CORPORATION
PACKAGING GRAPHICS & DESIGN DIVISION
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II. PRODUCT INGREDIENTS

INGREDIENTS	%	CAS NO.	PEL	STEL	TLV	STEL -ACGIH
Methyl Ethyl Ketone	7-13	78-93-3	200ppm	300ppm	200ppm	300ppm
Toluene	1-5	108-88-3	200ppm	500ppm, 300 CEIL	50ppm	5000 mg/kg, oral, rat
Aliphatic Hydrocarbon	10-30	64742-89-8	NE*	NE*	NE*	NE*
N-Heptane	7-13	142-82-5	400ppm	500ppm	400ppm	500ppm
Methylcyclohexane	7-13	108-87-2	400ppm	NE*	400ppm	NE*
N Octane		111-65-9	300ppm	NE*	300ppm	NE*
Hexane	25	110-54-3	500ppm	NE*	50ppm	NE*
Hexane Isomers	1	Unknown	NE*	NE*	500ppm	1000ppm
Methylcyclopentane		Not Established				

* - NE: Not Established

III. POTENTIAL HEALTH EFFECTS

EMERGENCY OVERVIEW: Water white liquid with aromatic odor. Flammable.

High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion. This product and its vapors may affect the central nervous system and/or aggravate pre-existing disorders.

EYES: May cause irritation.

SKIN: Liquid material may be absorbed through skin in harmful amounts. Primary skin irritant. May cause defatting and irritation of the skin.

INHALATION: May cause nose or throat irritation. High concentrations may cause acute central nervous system depression characterized by dizziness, nausea and confusion.

INGESTION: Can cause gastrointestinal irritation, nausea, and vomiting. Aspiration of material into lung may cause chemical pneumonitis which can be fatal.

EFFECTS OF REPEATED OVEREXPOSURE: Repeated overexposure to toluene may cause liver damage. Repeated overexposure may cause damage to the peripheral nervous system. Methyl ethyl ketone increases the potential for n-hexane to cause neurotoxic effects.

Additional precautions must be taken to keep exposure to both substances well below their allowable exposure levels.

Exposure to methyl ethyl ketone may enhance neurotoxicity of n-hexane and methyl n butyl ketone. This synergistic effect has

to resulted in peripheral neuropathy in humans. Reports have associated prolonged and repeated 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.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH: Toluene has been found to cause kidney, lung

ketone And spleen damage in laboratory animals. Laboratory studies involving rats indicate some evidence that methyl ethyl may be embryo toxic, fetotoxic and teratogenic.

IV. FIRST AID

EYES: Flush with large amounts of water, lifting upper and lower lids occasionally, for at least 15 minutes. Seek medical attention.

SKIN: Immediately flush the affected area with large amounts of water. Remove contaminated clothing as water is applied. Seek medical attention.

INHALATION: Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention immediately.

INGESTION: If swallowed, do not induce vomiting. Call poison control center, hospital emergency room or physician immediately.

NOTES TO PHYSICIAN: Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

MATTHEWS INTERNATIONAL CORP.

Product Name: **Adhesive Stripper Formula 970-1** MSDS # **200001**

FIRE FIGHTING INSTRUCTIONS

FLASH POINT (Method Use): -3 F (-19 C), SFCC
FLAMMABLE LIMITS: LEL - 1.0% UEL - 10.0%
AUTO-IGNITION TEMPERATURE: No Data
EXTINGUISHING MEDIA: Small Fires: Use NFPA Class B Fire Extinguisher (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires.
Large Fires: Polymer foam.
SPECIAL PROCEDURES: Fire fighters should wear SCBA. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build up and possible autoignition when exposed to extreme heat. If water is used, fog nozzles are preferable.
UNUSUAL FIRE AND EXPLOSION HAZARDS: During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
DANGER - Extremely flammable. Vapors may cause flash fire.

VI. ACCIDENT RESPONSE MEASURES

CHEMTREC TELEPHONE: 800-424-9300 NATIONAL SPILL RESPONSE CENTER: 800-424-8802

SMALL SPILL: Absorb with an inert material (dry sand, vermiculite, etc.) and place in a chemical waste container.
LARGE SPILL: Wear respirators, eye, hand and body protection appropriate for the size of the spill and the exposure encountered. Keep unauthorized personnel away. Eliminate all ignition sources (flames, hot surfaces, and sources of electrical, static or frictional sparks). Dike and contain spill with inert material (sand, vermiculite, etc.). Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent dike materials in covered metal containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

VII. SAFE HANDLING AND STORAGE

Do not store above 115 F (46 C). Store large quantities in a well ventilated area in compliance with applicable OSHA regulations (29 CFR 1910.106). Prohibit smoking in these areas. Do not store or use near sources of ignition (open flame, sparks, heat, etc.) or combustible materials. Containers should be grounded and bonded to the receiving container when dispensing this liquid product. Do not take internally. Close container after each use. Empty containers must not be washed and reused for any purpose. Never use pressure to empty. Drum is not a pressure vessel. Containers of this material may be hazardous when emptied. Do not weld, braze or cut on empty container. All hazard precautions given in the data sheet must be observed.

VIII. ENGINEERING CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Control airborne concentrations below the exposure limits. Use only with adequate ventilation.
RESPIRATORY: Proper selection of respiratory protection depends on many factors including duration, level of exposure, and conditions of use. In general, exposure to organic chemicals such as those contained in this product may not require the use of respiratory protection if used in well-ventilated areas. In restricted ventilation areas, a NIOSH approved chemical cartridge respirator may be required. Under certain conditions, such as spraying, a mechanical pre-filter may be required. In confined areas use a NIOSH MSHA approved air supply respirator. If the TLV's listed in Section II are exceeded, use a properly fitted NIOSH – MSHA approved respirator with an appropriate protection factor. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection" and "Respiratory Protection – A Manual and Guideline – ACGIH."
VENTILATION: Use general dilution and local exhaust ventilation in sufficient volume and pattern to maintain exposures below

(for all hazardous ingredients shown in Section II below the lowest permissible exposure limits shown in Section II. Refer to Industrial Ventilation – A Manual by ACGIH for additional information.

HAND PROTECTION:

Solvent impermeable gloves required for repeated and prolonged contact.

EYE PROTECTION:

Wear safety glasses meeting the ANSI standard requirements (Z87.!) where no contact with the eye is anticipated.

Chemical safety goggles meeting the specification of ANSI Z87.1 should be worn whenever there is a possibility of splashing or other contact with the eyes.

OTHER PROTECTIVE EQUIPMENT: Eye wash facility or device, safety shower.

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Product Name: **Adhesive Stripper Formula 970-1** MSDS # **200001**

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 149-240 F, 65-116 C

MELTING POINT: NA

VAPOR PRESSURE: No Data

VAPOR DENSITY (Air =1): >1

pH: NA

SPECIFIC GRAVITY (H2O =1): 6.0 lb/gal

VOLATILE BY VOLUME: 100%

VOC: 5.99 lb/gal, 719 g/l (less water)(calculated)

SOLUBLE IN WATER? 3.0%

0 g/l solid

ODOR AND APPEARANCE: Water white liquid with aromatic odor.

X. STABILITY AND REACTIVITY

STABILITY:

Normally stable.

CONDITIONS TO AVOID:

Excessive heat (>115 F, (46 C)), sources of ignition.

INCOMPATIBILITY:

Strong acids or alkaline materials, Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

Burning, including welding or cutting may produce smoke, carbon monoxide, and carbon dioxide.

HAZARDOUS POLYMERIZATION:

Will not occur.

XI. TOXICOLOGICAL INFORMATION

No information available.

XII. ECOLOGICAL INFORMATION

No information available.

XIII. DISPOSAL INFORMATION

Dispose of in accordance with federal, state, provincial and local regulations. Observe precautions for disposal of flammable materials. Used portions of Adhesive Stripper Formula 970-1 are considered hazardous waste under Federal Hazardous Waste Regulations (40 CFR 261). RCRA Waste Code Classification: D001, D035, F005. NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product should be classified as a hazardous waste (40 CFR 261.20-24).

XIV. TRANSPORTATION INFORMATION

US PROPER SHIPPING NAME : Paint Related Material , 3, UN1263, PG II (Contains Methyl Ethyl Ketone, Toluene)

NAERG: 3-05 The US Code of Federal Transportations, Regulations, and the policies established by some transporters require that the shipper properly classify and assign a proper shipping name and label, mark and package the material properly. Therefore, the user of this information is cautioned to consult with applicable regulations and with qualified advisors prior to the repackaging and/or reshipment of this or any other product which contains this product.

XV. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: All components contained in this product are considered hazardous ingredients.

CLEAN AIR ACT: This product contains the following hazardous air pollutants regulated under section 112 of the 1990 CAA:

Methyl Ethyl Ketone, Toluene, Hexane

HMIS RATINGS: Health 2 Flammability 3 Reactivity 0

CERCLA/SARA, 40 CFR 117, 302: No extremely hazardous substances are contained in this product.

REPORTABLE QUANTITIES: Methyl Ethyl Ketone –5,000 lb Toluene – 1,000 lb Cyclohexane – 1,000 lb

SECTION 311/312 HAZARD CATEGORIES: Fire, Acute Health, Delayed Health

SECTION 313 CHEMICALS:
STATE REGULATIONS: California:

Methyl Ethyl Ketone, Toluene, n-Hexane, Cyclohexane
The following statement is made in order to comply with California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains Toluene, a chemical known to the State of California to cause birth defects or other reproductive harm.

XVI. OTHER INFORMATION

MSDS # 200001 Original issue date: 9/17/86 Revised 11/30/01 Prepared by: M.A. Remlinger & Chris Spataro
09/30/05, Discontinued 5/21/10

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