

JNJ Industries, Inc.

290 Beaver Street

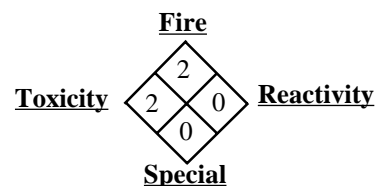
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HAZARD RATING

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant



FOR CHEMICAL EMERGENCY call INFOTRAC at 1-800-535-5053
24 Hrs. per day, 7 days per week

MATERIAL SAFETY DATA SHEET

MATERIAL GlobalTech® SOLDER PASTE & FLUX REMOVER	CODE	KEY PFR	HAZARD CLASS Combustible Liquid
FORMULA NA	DATE ISSUED 01/05	CHEMICAL NAME OR SYNONYMS N-Amino Ethanol, Aliphatic Glycol Ethers	

I - APPROXIMATE COMPOSITIONAL INFORMATION

Glycols Aliphatic Glycol Ethers N-Amino Ethanol	APPROX. WEIGHT % <5 >90 <5	TWA/TLV 100 ppm OSHA 29CFR 1910 NE 8 TWA
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II - PHYSICAL PROPERTY INFORMATION

APPEARANCE; ODOR; pH Clear Colorless Liquid, Mild Odor		VISCOSITY NA
MELTING/FREEZING POINT F.P. -50°C	BOILING POINT 302°F (150°C)	VAPOR DENSITY (Air = 1) 3.8
SOLUBILITY IN WATER 100%	% VOLATILE (By Weight) 100%	VAPOR PRESSURE (mm Hg) 1.5 @ 20°C
SPECIFIC GRAVITY (Water = 1) 0.89	EVAPORATION RATE (Butyl Acetate = 1) 0.2	

III - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT 117°F (47°C), TCC	AUTOIGNITION TEMP Will Not Occur	LOWER EXPLOSION LIMIT % NA	UPPER EXPLOSION LIMIT % NA
EXTINGUISHING MEDIA <input checked="" type="checkbox"/> Foam <input type="checkbox"/> "Alcohol" Foam <input checked="" type="checkbox"/> CO ₂ <input checked="" type="checkbox"/> Dry Chemical <input type="checkbox"/> Water Spray <input type="checkbox"/> Other			
SPECIAL FIRE FIGHTING PROCEDURES Self-contained breathing apparatus and full protective gear			
UNUSUAL FIRE AND EXPLOSION HAZARDS During fire, oxides of Nitrogen may evolve			

IV - HEALTH HAZARD INFORMATION

RECOMMENDED WORKPLACE EXPOSURE LIMITS 300 ppm
EFFECTS OF OVEREXPOSURE <u>Inhalation:</u> May cause irritation to nose and throat <u>Eye Contact:</u> Irritation may cause eye reddening <u>Skin Contact:</u> Prolonged contact may result in skin drying <u>Ingestion:</u> Irritation to throat, mouth, esophagus. May cause nausea, vomiting, dizziness, diarrhea
EMERGENCY AND FIRST AID PROCEDURES <u>Inhalation:</u> Move subject to fresh air. Give artificial respiration if not breathing <u>Eye or Skin Contact:</u> Flush with large amount of water for 15 mins, call physician. Remove contaminated clothing, wash before use <u>Ingestion:</u> If conscious, drink 1 pint of luke warm water. DO NOT induce vomiting. Obtain medical attention promptly

V - REACTIVITY INFORMATION

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID Temperatures above 250° C, Avoid heat, sparks, and flame.
HAZARDOUS DECOMPOSITION PRODUCTS Oxides of Carbon and Nitrogen	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	CONDITIONS TO AVOID NA
INCOMPATIBILITY (Materials To Avoid) <input type="checkbox"/> Water <input checked="" type="checkbox"/> Other Strong: Oxidizers, bases, acids. Ketones, aldehydes, anhydrides	

VI - SPILL OR LEAK PROCEDURE INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Wear suitable protective equipment. Collect small spills with absorbents, large spills flush with water, avoid discharge into sewers and waterways.
WASTE DISPOSAL METHODS Incinerate where permitted under Federal, State, and Local regulations.

VII - SPECIAL PROTECTION INFORMATION

VENTILATION TYPE Use local exhaust ventilation to maintain vapor below TWA's.	
RESPIRATORY PROTECTION Self-contained breathing apparatus in high vapor concentrations.	
PROTECTIVE GLOVES Natural Rubber	EYE PROTECTION Safety Glasses
OTHER PROTECTIVE EQUIPMENT Eye Bath, Safety Shower	

VIII - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE Ambient	INDOOR Ambient	HEATED NA	REFRIGERATED NA	OUTDOOR Ambient
Avoid eye and skin contact. Keep away from children. Keep away from heat and flame. Use with adequate ventilation. Avoid inhalation of vapor or mist. Avoid contact with Copper & Copper alloys such as Brass. Use only Polyethylene valves & containers.				

IX - TOXICITY INFORMATION

This product does not require reporting under the Comprehensive Environmental and Liability Act (CERCLA) of 1980. It is TSCA Listed. It is not listed on Hazardous Air Pollutant (HAPS) list of the 1990 Clean Air Act Amendments, and is not subject to SARA Title III regulation.

X - MISCELLANEOUS INFORMATION

Ventilation Protection: Refer to current edition of "Industrial Ventilation; A Manual of Recommended Practice", ACGIH, for the design, installation, use, and maintenance of ventilation system.

NA = Not Available NE = Non Established	KEY PFR	DATE OF ISSUE 01/05	SUPERSEDES 4/01/01
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