

FAB 10**ENVIRONMENTAL HEALTH & SAFETY
INDUSTRIAL HYGIENE****MATERIAL SAFETY DATA SHEET
EURO FORMAT****1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

1.1	Identification of substance (as per label): Other means of identification:	Flammable liquid NOS GlobalTech® - Epoxy & Adhesive Cleaner (EAD) <i>Date of Last Revision:</i> 01/05
1.2	Company Name: Full Address: Web Site: www.jnj-industries.com E Mail: sales@jnj-industries.com Telephone Number: Fax Number: Emergency Number:	JNJ Industries Inc. 290 Beaver Street Franklin, MA 02038 (508) 553-0529 (508) 553-9973 InfoTrac (800) 535-5053

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER	INGREDIENTS	0%	SYMBOLS	RISK PHASE
97-64-3	Ethyl Hydroxy Ester	40-60%	CnHmOp	N/E
97-85-8	Isobutyl Esters	40-60%	CnHmOp	N/E

2.1	Substances presenting a health hazard:	All GlobalTech® solvents are CFC, HCFC, & ODS FREE
2.2	Exposure Limit Value:	None established per ACGIH or OSHA
2.3	If substance is confidential-indicate chemical nature to ensure safe handling:	Combustible liquid - keep away from heat and flame

3. HAZARDS IDENTIFICATION

3.1	Critical Hazards:	Combustible liquid
3.2	Critical Hazards to Man & Environment: Adverse Human Health Effects and Symptoms:	Hazard Rating: Toxicity: 1, Fire: 2, Reactivity: 0 HMIS Refer to Section 11 - Toxicological Information

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1. FIRST AID MEASURES

<p>4.1</p>	<p>Skin Contact: First Aid: Symptoms: Effects: Delayed Effects: Medical Attention Needed:</p> <p>Eye Contact: First Aid: Symptoms: Effects: Delayed Effects: Medical Attention Needed:</p> <p>Inhalation: First Aid: Symptoms: Effects: Delayed Effects: Medical Attention Needed:</p> <p>Ingestion: First Aid: Symptoms: Effects: Delayed Effects: Medical Attention Needed:</p> <p>Immediate Treatment Available at Workplace:</p>	<p>Flush with large amounts of water Reddening after brief contact Prolonged contact may result in skin drying Prolonged contact may result in skin drying Flush with large amounts of water</p> <p>Flush with large amounts of water Irritation may cause eye reddening Irritation may cause eye reddening Irritation may cause eye reddening Flush with large amounts of water</p> <p>Move to fresh air Non-Hazardous, no short term adverse health effects Non-Hazardous, no short term adverse health effects Non-Hazardous, no short term adverse health effects Seek medical attention</p> <p>Induce vomiting Large quantities may cause dizziness or nausea Large quantities may cause dizziness or nausea Large quantities may cause dizziness or nausea Seek medical attention</p> <p>(Refer to Corporate First Aid Policy)</p>
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2. FIRE FIGHTING MEASURES

<p>5.1</p>	<p>Suitable Extinguishing Media:</p>	<p>CO2, Dry Chemical, Foam</p>
<p>5.2</p>	<p>Unsuitable Extinguishing Media:</p>	<p>“Alcohol” Foam, Water Spray</p>
<p>5.3</p>	<p>Exposure Hazards:</p>	<p>Extreme conditions may produce floating fire hazard</p>
<p>5.4</p>	<p>Combustion Products: Resulting Gases:</p>	<p>Oxides of Carbon</p>
<p>5.5</p>	<p>Protective Equipment for Firefighters:</p>	<p>Self-contained breathing apparatus and full protective gear</p>

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1. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	<u>System Design:</u> (e.g. Fume Hoods, Ventilation Cabinets, Enclosure)	Use local exhaust ventilation to maintain airborne limits as in Section 2.2
8.2	<u>Control Parameters:</u> Limit Values or Biological Standards:	None established per ACGIH or OSHA
8.3	<u>Recommended Monitoring Procedures:</u>	Refer to Country, State & Local ordinances
8.4	<u>Personal Protection</u> <i>Respiratory Protection:</i> <i>Hand Protection:</i> <i>Eye Protection:</i> <i>Skin Protection:</i>	Self-contained breathing apparatus in high vapor concentrations Natural Rubber Gloves Safety Glasses or Goggles Natural Rubber Gloves
8.5	CEN Standards:	

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2. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Clear colorless liquid
9.2	Odor:	Slight fruity odor
9.3	P.H.:	N/E
9.4	Boiling Point:	101°C
9.5	Melting Point/Freezing Point:	F.P. <-70°C
9.6	Flash Point:	41°C
9.7	Flammability: (solid gas)	N/E
9.8	Auto flammability:	N/E
9.9	Explosive Properties:	None
9.10	Oxidizing Properties:	Keep away from strong oxidizers
9.11	Vapor Pressure:	3.0 mm Hg at 20°C
9.12	Relative Density:	0.94
9.13	Solubility:	
	1. Water Solubility:	Slight
	2. Fat Solubility:	N/E
9.14	Partition coefficient, n-octanol/water:	N/E
9.15	Other Data:	
	3. Safety Parameters:	Keep away from heat, sparks, and flame Keep away from strong oxidizers
	4. Vapor Density:	3.0
	5. Miscibility:	Slight with water
	6. Evaporation Rate:	0.36 (Butyl Acetate = 1)
	7. Conductivity:	N/E
	8. Viscosity:	N/E

3. STABILITY AND REACTIVITY

10.1	Stability:	Stable
10.2	Conditions to Avoid:	Heat, sparks, and flame - may decompose to oxides of carbon
	9. Effects:	
10.3	Materials to Avoid:	Strong oxidizers
	10. Effects:	
10.4	Hazardous Decomposition Products:	Oxides of carbon
	11. The need for and the presence of stabilizers:	Stable
	12. Hazardous exothermic reaction:	Will not occur
	13. Change appearance in the substance:	N/E
	14. Hazardous products formed upon contact with water:	None
	15. Possible degradation to unstable products:	None

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2. TOXICOLOGICAL INFORMATION

<p>11.1</p>	<p>Skin Exposure: 1. Symptoms: 2. Immediate Effects: 3. Delayed Effects: 4. Chronic Effects: 5. Special Health Effects:</p>	<p>Reddening after brief contact Reddening after brief contact Prolonged contact may result in skin drying Prolonged contact may result in skin drying Not known</p>
<p>11.2</p>	<p>Eye Contact: 6. Symptoms: 7. Immediate Effects: 8. Delayed Effects: 9. Chronic Effects: 10. Special Health Effects:</p>	<p>Irritation may cause eye reddening Irritation may cause eye reddening Irritation may cause eye reddening Irritation may cause eye reddening Not Known</p>
<p>11.3</p>	<p>Inhalation: 11. Symptoms: 12. Immediate Effects: 13. Delayed Effects: 14. Chronic Effects: 15. Special Health Effects:</p>	<p>Non-Hazardous, no short term adverse health effects Non-Hazardous, no short term adverse health effects Non-Hazardous, no short term adverse health effects Non-Hazardous, no short term adverse health effects Seek medical attention</p>
<p>11.4</p>	<p>Ingestion: 16. Symptoms: 17. Immediate Effects: 18. Delayed Effects: 19. Chronic Effects: 20. Special Health Effects:</p>	<p>Large quantities may cause dizziness or nausea Large quantities may cause dizziness or nausea Large quantities may cause dizziness or nausea Large quantities may cause dizziness or nausea Seek medical attention</p>

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2. ECOLOGICAL INFORMATION

12.1	Mobility: 1. Distribution to environmental compartments: 2. Surface tension: 3. Absorption / desorption: 4. Physical & chemical properties:	N/E N/E N/E Refer to section 9
12.2	Degradability: 5. Biotic and abiotic degradation: 6. Acrobic and anaerobic degradation: 7. Persistence:	N/E N/E N/E
12.3	Accumulation: 8. Bioaccumulation potential: 9. Biomagnification:	N/E N/E
12.4	Short and Long Term Effects on: 10. Ecotoxicity: 11. aquatic organisms: 12. soil organisms: 13. plants and terrestrial animals: 14. Other Adverse Effects: 15. ozone depletion potential: 16. photochemical ozone creation potential: 17. effects on waste water treatment plants:	N/E N/E N/E None N/E N/E

3. DISPOSAL CONSIDERATIONS

13.1	Safe Handling:	Keep away from heat, flame, and spark; store at ambient temperature, wear natural rubber gloves, and safety glasses or goggles
13.2	Methods of Disposal:	Local waste hauler should be consulted
13.3	Community Provisions: National or Regional Provisions:	(To be Completed by Individual Corporation)

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1. TRANSPORT INFORMATION

14.1	UN Nr:	UN 1993
14.2	UK Road & Sea Freight (IMO) Classification:	
14.3	Substance Classification Number:	
14.4	Class:	
14.5	Packing Group:	
14.6	Proper Shipping Name: PGR (if applicable)	
14.7	ADR/RID CLASSIFICATION: Class: Item Number:	
14.8	ICAO/IATA CLASSIFICATION: Class: Sub-Risk: Packing Group: Proper Shipping Name:	3 N/A III Flammable Liquid - N.O.S. Ethyl Hydroxy Ester, Isobutyl Esters

2. REGULATORY INFORMATION

15.1	Precautionary Label Information:	Flammable Liquid - 3 (DOT)
15.2	Symbols:	Red Diamond Shape Flammable Sticker
15.3	Risk Phases:	Listed on the accompanying MSDS
15.4	Safety Phases:	Listed on the accompanying MSDS

3. OTHER INFORMATION

16.1	Regulatory Information:	Refer to section 15
16.2	Training Necessary:	(Information Provided by Individual Company)
16.3	Reissue Date / Reason for Reissue:	N/A
16.4	Intended Use of Product:	Cleaning Compound
16.5	Limitations on Use of Product:	N/A

N/A = Not Applicable
N/E = Not Established