



# Safety Data Sheet

Issue Date: 01-Jan-2012

Revision Date: 15-Jan-2015

Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** GlobalTech® Solder Paste & Flux Remover

### Other means of identification

**SDS #** JNJ-002

**Product Code** PFR  
**UN/ID No** UN1993

### Recommended use of the chemical and restrictions on use

**Recommended Use** Solder paste and flux remover.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

JNJ Industries  
290 Beaver Street  
Franklin, MA 02038

### Emergency Telephone Number

**Company Phone Number** Phone: 800-554-9994 / 508-553-0529  
Fax: 508-553-9973  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear, colorless liquid      **Physical State** Liquid      **Odor** Mild

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Flammable Liquids	Category 3

### Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed  
May be harmful in contact with skin

### Signal Word

**Warning**

### Hazard Statements

Causes skin irritation  
Causes serious eye irritation  
Flammable liquid and vapor

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 If skin irritation occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IN CASE OF FIRE: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Aliphatic Glycol Ethers	Proprietary	>90
Aliphatic ether alcohol	Proprietary	<5
N-Amino Ethanol	Proprietary	<5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/ attention.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Call a physician.
<b>Ingestion</b>	If large amount is swallowed, give lukewarm water (pint, 1/2 liter). Do not induce vomiting. Get prompt medical attention.

**Most important symptoms and effects**

<b>Symptoms</b>	Contact will cause irritation and redness to exposed areas. May cause nose and throat irritation. Dizziness. May cause nausea, vomiting, stomach ache, and diarrhea.
-----------------	--

**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
---------------------------	------------------------

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Combustion products may be toxic.

**Hazardous Combustion Products** Nitrogen oxides (NO<sub>x</sub>). Carbon oxides.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

<b>Personal Precautions</b>	Use personal protective equipment as required.
-----------------------------	--

<b>Environmental Precautions</b>	Dike spill and prevent spill from entering sewers and waterways.
----------------------------------	--

**Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
--------------------------------	---

<b>Methods for Clean-Up</b>	Contain and collect with an inert absorbent and place into an appropriate container for disposal.
-----------------------------	---

**7. HANDLING AND STORAGE****Precautions for safe handling**

<b>Advice on Safe Handling</b>	Wash thoroughly after handling. Use personal protection recommended in Section 8. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Avoid contact with copper and copper alloys such as brass. Use only polyethylene valves and containers.
--------------------------------	--

**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
---------------------------	---

<b>Incompatible Materials</b>	Strong oxidizing agents. Strong bases. Strong acids. Ketones. Aldehydes. Anhydrides.
-------------------------------	--

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aliphatic ether alcohol	STEL: 150 ppm TWA: 100 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 150 ppm STEL: 540 mg/m <sup>3</sup>
N-Amino Ethanol	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup> (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Eyewash stations. Showers.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses.

**Skin and Body Protection** Chemical resistant protective gloves.

**Respiratory Protection** Use self-contained breathing apparatus in high vapor concentrations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Clear, colorless liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Colorless		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	Not determined		
<b>Melting Point/Freezing Point</b>	-50 °C / -58 °F		
<b>Boiling Point/Boiling Range</b>	150 °C / 302 °F		
<b>Flash Point</b>	47 °C / 117 °F	Tag Closed Cup (butyl acetate = 1)	
<b>Evaporation Rate</b>	0.2		
<b>Flammability (Solid, Gas)</b>	n/a-liquid		
<b>Upper Flammability Limits</b>	Not available		
<b>Lower Flammability Limit</b>	Not available		
<b>Vapor Pressure</b>	1.5 mm Hg	@20°C	
<b>Vapor Density</b>	3.8	(Air=1)	
<b>Specific Gravity</b>	0.89	(1=Water)	
<b>Water Solubility</b>	Completely soluble		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Does not occur		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Avoid temperatures above 250° C. Heat, flames and sparks.

### Incompatible Materials

Strong oxidizing agents. Strong bases. Strong acids. Ketones. Aldehydes. Anhydrides.

### Hazardous Decomposition Products

Nitrogen oxides (NOx). Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Causes serious eye irritation.
<b>Skin Contact</b>	Causes skin irritation. May be harmful in contact with skin.
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Ingestion</b>	May be harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aliphatic Glycol Ethers	= 2504 mg/kg ( Rat )	= 3550 mg/kg ( Rabbit )	-
Aliphatic ether alcohol	= 5200 mg/kg ( Rat )	= 13000 mg/kg ( Rabbit )	= 54.6 mg/L ( Rat ) 4 h > 24 mg/L ( Rat ) 1 h
N-Amino Ethanol	= 1720 mg/kg ( Rat )	= 1 mL/kg ( Rabbit ) = 1025 mg/kg ( Rabbit )	-

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Aliphatic ether alcohol		20.8: 96 h Pimephales promelas g/L LC50 static 4600 - 10000: 96 h Leuciscus idus mg/L LC50 static		23300: 48 h Daphnia magna mg/L EC50
N-Amino Ethanol	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	65: 48 h Daphnia magna mg/L EC50

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

Chemical Name	Partition Coefficient
Aliphatic ether alcohol	-0.437
N-Amino Ethanol	-1.91

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

### Note

The shipping description is specific to the container and mode of shipment.  
NOTE: packages with inner packagings not over 5 liter/5 kg may be reclassified as a Limited Quantity. Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

### DOT

<b>UN/ID No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable liquid, n.o.s. (Propylene glycol n-propyl ether)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III

**IATA**

**UN/ID No** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s. (Propylene glycol n-propyl ether)  
**Hazard Class** 3  
**Packing Group** III

**IMDG**

**UN/ID No** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s. (Propylene glycol n-propyl ether)  
**Hazard Class** 3  
**Packing Group** III  
**Marine Pollutant** This material may meet the definition of a marine pollutant

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Aliphatic Glycol Ethers	Present	X		Present		Present	X	Present	X	X
Aliphatic ether alcohol	Present	X		Present		Present	X	Present	X	X
N-Amino Ethanol	Present	X		Present		Present	X	Present	X	X

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*
- AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations**

**SARA 313**

Not determined

**US State Regulations**

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Aliphatic ether alcohol	X	X	X
N-Amino Ethanol	X	X	X

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	2	2	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	2	2	0	B

Issue Date: 01-Jan-2012  
 Revision Date: 15-Jan-2015  
 Revision Note: New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**