

**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® - Global Clean (GPF) <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
67-63-0	2-Propanol	10-90%	CnHmOp	N/E
590-01-2	Butyl Propanoate	10-90%	CnHmOp	N/E

2.1	Substances presenting a health hazard:	All GlobalTech® solvents are CFC, HCFC, & ODS FREE
2.2	Exposure Limit Value:	500 ppm ACGIH Calculated
2.3	If substance is confidential-indicate chemical nature to ensure safe handling:	Flammable liquid - keep away from heat and flame

**3. HAZARDS IDENTIFICATION**

3.1	Critical Hazards:	Flammable liquid
3.2	Critical Hazards to Man & Environment:  Adverse Human Health Effects and Symptoms:	Hazard Rating: Toxicity: 2, Fire: 3, Reactivity: 0 HMIS  Refer to Section 11 - Toxicological Information

**MATERIAL SAFETY DATA SHEET  
EURO FORMAT**

**1. FIRST AID MEASURES**

4.1	<p><b>Skin Contact:</b>  <b>First Aid:</b>  <b>Symptoms:</b>  <b>Effects:</b>  <b>Delayed Effects:</b>  <b>Medical Attention Needed:</b></p> <p><b>Eye Contact:</b>  <b>First Aid:</b>  <b>Symptoms:</b>  <b>Effects:</b>  <b>Delayed Effects:</b>  <b>Medical Attention Needed:</b></p> <p><b>Inhalation:</b>  <b>First Aid:</b>  <b>Symptoms:</b>  <b>Effects:</b>  <b>Delayed Effects:</b>  <b>Medical Attention Needed:</b></p> <p><b>Ingestion:</b>  <b>First Aid:</b>  <b>Symptoms:</b>  <b>Effects:</b>  <b>Delayed Effects:</b>  <b>Medical Attention Needed:</b></p> <p><b>Immediate Treatment Available at Workplace?</b></p>	<p><b>Flush with large amount of water</b>  <b>Reddening after contact</b>  <b>Prolonged contact results in skin drying</b>  <b>Prolonged contact results in skin drying</b>  <b>Flush with large amounts of water</b></p> <p><b>Flush with large amounts of water</b>  <b>Irritation may cause eye reddening</b>  <b>Irritation may cause eye reddening</b>  <b>Irritation may cause eye reddening</b>  <b>Flush with large amount of water</b></p> <p><b>Move to fresh air, artificial respiration if necessary</b>  <b>May cause irritation to nose or respiratory tract</b>  <b>May cause irritation to nose or respiratory tract</b>  <b>May cause irritation to nose or respiratory tract</b>  <b>Seek medical attention</b></p> <p><b>Induce vomiting</b>  <b>May cause drowsiness, stomach cramps or nausea</b>  <b>May cause drowsiness, stomach cramps or nausea</b>  <b>May cause drowsiness, stomach cramps or nausea</b>  <b>Seek medical attention</b></p> <p><b>(Refer to Corporate First Aid Policy)</b></p>
-----	---	--

**2. FIRE FIGHTING MEASURES**

5.1	<b>Suitable Extinguishing Media:</b>	<b>CO2, Dry Chemical, Foam, Water Spray</b>
5.2	<b>Unsuitable Extinguishing Media:</b>	<b>“Alcohol” Foam</b>
5.3	<b>Exposure Hazards:</b>	<b>Vapors may settle in low areas or travel to sources of ignition</b>
5.4	<b>Combustion Products: Resulting Gases:</b>	<b>Oxides of Carbon</b>
5.5	<b>Protective Equipment for Firefighters:</b>	<b>Self-contained breathing apparatus and full protective gear</b>



**MATERIAL SAFETY DATA SHEET  
EURO FORMAT**

**1. EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1	<p><b><u>System Design:</u></b> (e.g. Fume Hoods, Ventilation Cabinets, Enclosure)</p>	<p>Use local exhaust ventilation to maintain airborne limits as in Section 2.2</p>
8.2	<p><b><u>Control Parameters:</u></b> Limit Values or Biological Standards:</p>	<p>500 ppm ACGIH Calculated</p>
8.3	<p><b><i>Recommended Monitoring Procedures:</i></b></p>	<p>Refer to Country, State &amp; Local ordinances</p>
8.4	<p><b><u>Personal Protection:</u></b></p> <p><b><i>Respiratory Protection:</i></b></p> <p><b><i>Hand Protection:</i></b></p> <p><b><i>Eye Protection:</i></b></p> <p><b><i>Skin Protection:</i></b></p>	<p>Self-contained breathing apparatus in high vapor concentrations.</p> <p>Natural Rubber Gloves</p> <p>Safety Glasses or Goggles</p> <p>Natural Rubber Gloves</p>
8.5	<p><b>CEN Standards:</b></p>	

**FAB 10 ENVIRONMENTAL HEALTH & SAFETY  
INDUSTRIAL HYGIENE  
MATERIAL SAFETY DATA SHEET  
EURO FORMAT**

**2. PHYSICAL AND CHEMICAL PROPERTIES**

9.1	<b>Appearance:</b>	Water clear liquid
9.2	<b>Odor:</b>	Mild odor
9.3	<b>P.H.:</b>	7
9.4	<b>Boiling Point:</b>	90° - 95°C
9.5	<b>Melting Point/Freezing Point:</b>	-80°C
9.6	<b>Flash Point:</b>	13°C
9.7	<b>Flammability: (solid gas)</b>	N/E
9.8	<b>Auto flammability:</b>	N/E
9.9	<b>Explosive Properties:</b>	None
9.10	<b>Oxidizing Properties:</b>	Keep away from strong oxidizers
9.11	<b>Vapor Pressure:</b>	20 mm Hg at 20°C
9.12	<b>Relative Density:</b>	0.83
9.13	<b>Solubility:</b>	
	1. Water Solubility:	Slight
	2. Fat Solubility:	N/E
9.14	<b>Partition coefficient, n-octanol/water:</b>	N/E
9.15	<b>Other Data:</b>	
	3. Safety Parameters:	Keep away from strong oxidizers
	4. Vapor Density:	3.7
	5. Miscibility:	Slight with water
	6. Evaporation Rate:	1.7 (Butyl Acetate = 1)
	7. Conductivity:	N/E
	8. Viscosity:	N/E

**3. STABILITY AND REACTIVITY**

10.1	<b>Stability:</b>	Stable
10.2	<b>Conditions to Avoid:</b>	Heat, sparks, and flame - may decompose to oxides of carbon
	9. Effects:	
10.3	<b>Materials to Avoid:</b>	Strong oxidizers
	10. Effects:	
10.4	<b>Hazardous Decomposition Products:</b>	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

**MATERIAL SAFETY DATA SHEET**

**EURO FORMAT**

**2. TOXICOLOGICAL INFORMATION**

<p>11.1</p>	<p><b>Skin Exposure:</b>          1. <b>Symptoms:</b>          2. <b>Immediate Effects:</b>          3. <b>Delayed Effects:</b>          4. <b>Chronic Effects:</b>          5. <b>Special Health Effects:</b></p>	<p>Reddening after contact          Reddening after contact          Prolonged contact results in skin drying          Prolonged contact results in skin drying          Not known</p>
<p>11.2</p>	<p><b>Eye Contact:</b>          6. <b>Symptoms:</b>          7. <b>Immediate Effects:</b>          8. <b>Delayed Effects:</b>          9. <b>Chronic Effects:</b>          10. <b>Special Health Effects:</b></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><b>Inhalation:</b>          11. <b>Symptoms:</b>          12. <b>Immediate Effects:</b>          13. <b>Delayed Effects:</b>          14. <b>Chronic Effects:</b>          15. <b>Special Health Effects:</b></p>	<p>Move to fresh air, artificial respiration if necessary          May cause irritation to nose or respiratory tract          May cause irritation to nose or respiratory tract          May cause irritation to nose or respiratory tract          Seek medical attention</p>
<p>11.4</p>	<p><b>Ingestion:</b>          16. <b>Symptoms:</b>          17. <b>Immediate Effects:</b>          18. <b>Delayed Effects:</b>          19. <b>Chronic Effects:</b>          20. <b>Special Health Effects:</b></p>	<p>May cause drowsiness, stomach cramps or nausea          May cause drowsiness, stomach cramps or nausea          Not Known          Not Known          Seek medical attention</p>

**MATERIAL SAFETY DATA SHEET  
EURO FORMAT**

**2. ECOLOGICAL INFORMATION**

12.1	<b>Mobility:</b> 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	<b>Degradability:</b> 5. Biotic and abiotic degradation: 6. Acrobic and anaerobic degradation: 7. Persistence:	N/E N/E N/E
12.3	<b>Accumulation:</b> 8. Bioaccumulation potential: 9. Biomagnification:	N/E N/E
12.4	<b>Short and Long Term Effects on:</b> 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	<b>Safe Handling:</b>	Keep away from heat, flame, and spark; store at ambient temperature, wear natural rubber gloves, and safety glasses or goggles
13.2	<b>Methods of Disposal:</b>	Local waste hauler should be consulted
13.3	<b>Community Provisions: National or Regional Provisions:</b>	(To be Completed by Individual Corporation)

**FAB 10 ENVIRONMENTAL HEALTH & SAFETY  
INDUSTRIAL HYGIENE  
MATERIAL SAFETY DATA SHEET  
EURO FORMAT**

**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:	3
	Sub-Risk:	N/A
	Packing Group:	II
	Proper Shipping Name:	Flammable Liquid, N.O.S. 2-Propanol, Butyl Propanoate

**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