

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

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS NUMBER	INGREDIENTS	0%	SYMBOLS	RISK PHASE
67-63-0	2-Propanol	70%	CnHmOp	N/E
7732-18-5	DI Water	30%	HmOp	N/E

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

**3. HAZARDS IDENTIFICATION**

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

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**1. FIRST AID MEASURES**

<p><b>4.1</b></p>	<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>Flush with large amount of water                      Reddening after brief contact                      Prolonged contact results in skin drying                      Prolonged contact results in skin drying                      Flush with large amounts of water</p> <p>Flush with large amounts of water                      Slight/moderate irritation, may cause corneal injury                      Slight/moderate irritation, may cause corneal injury                      Slight/moderate irritation, may cause corneal injury                      Seek medical attention</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>Induce vomiting                      May cause drowsiness, vomiting, diarrhea, cramps                      May cause drowsiness, vomiting, diarrhea, cramps                      May cause drowsiness, vomiting, diarrhea, cramps                      Seek medical attention</p> <p>(Refer to Corporate First Aid Policy)</p>
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**2. FIRE FIGHTING MEASURES**

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



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**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>None required during normal use with adequate ventilation. 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>	

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**2. PHYSICAL AND CHEMICAL PROPERTIES**

9.1	<b>Appearance:</b>	Water clear liquid
9.2	<b>Odor:</b>	Characteristic
9.3	<b>P.H.:</b>	7
9.4	<b>Boiling Point:</b>	82°C
9.5	<b>Melting Point/Freezing Point:</b>	-88.5°C
9.6	<b>Flash Point:</b>	17°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>	33 mm Hg at 20°C
9.12	<b>Relative Density:</b>	0.88
9.13	<b>Solubility:</b>	
	1. <b>Water Solubility:</b>	Complete
	2. <b>Fat Solubility:</b>	N/E
9.14	<b>Partition coefficient, n-octanol/water:</b>	N/E
9.15	<b>Other Data:</b>	
	3. <b>Safety Parameters:</b>	Concentrated Nitric & Sulfuric acids, Oxidizers, Aldehydes, Halogens, Halogen Compounds
	4. <b>Vapor Density:</b>	2.07
	5. <b>Miscibility:</b>	Complete with water
	6. <b>Evaporation Rate:</b>	2.88 (Butyl Acetate = 1)
	7. <b>Conductivity:</b>	N/E
	8. <b>Viscosity:</b>	N/E

**3. STABILITY AND REACTIVITY**

10.1	<b>Stability:</b>	Stable
10.2	<b>Conditions to Avoid:</b>	Keep away from ignition sources: heat, sparks, and flame
	9. <b>Effects:</b>	
10.3	<b>Materials to Avoid:</b>	Concentrated Nitric & Sulfuric acids, Oxidizers, Aldehydes, Halogens, Halogen Compounds
	10. <b>Effects:</b>	
10.4	<b>Hazardous Decomposition Products</b>	N/A
	11. <b>The need for and the presence of stabilizers:</b>	Stable
	12. <b>Hazardous exothermic reaction:</b>	Will not occur
	13. <b>Change appearance in the substance:</b>	N/E
	14. <b>Hazardous products formed upon contact with water:</b>	None
	15. <b>Possible degradation to unstable products:</b>	None

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**2. TOXICOLOGICAL INFORMATION**

<p>11.1</p>	<p><b>Skin Exposure:</b>  <b>1. Symptoms:</b>  <b>2. Immediate Effects:</b>  <b>3. Delayed Effects:</b>  <b>4. Chronic Effects:</b>  <b>5. Special Health Effects:</b></p>	<p><b>Reddening after brief contact</b>  <b>Reddening after brief contact</b>  <b>Prolonged contact results in skin drying</b>  <b>Prolonged contact results in skin drying</b>  <b>Not known</b></p>
<p>11.2</p>	<p><b>Eye Contact:</b>  <b>6. Symptoms:</b>  <b>7. Immediate Effects:</b>  <b>8. Delayed Effects:</b>  <b>9. Chronic Effects:</b>  <b>10. Special Health Effects:</b></p>	<p><b>Slight/moderate irritation, may cause corneal injury</b>  <b>Slight/moderate irritation, may cause corneal injury</b>  <b>Slight/moderate irritation, may cause corneal injury</b>  <b>Slight/moderate irritation, may cause corneal injury</b>  <b>Seek medical attention</b></p>
<p>11.3</p>	<p><b>Inhalation:</b>  <b>11. Symptoms:</b>  <b>12. Immediate Effects:</b>  <b>13. Delayed Effects:</b>  <b>14. Chronic Effects:</b>  <b>15. Special Health Effects:</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>11.4</p>	<p><b>Ingestion:</b>  <b>16. Symptoms:</b>  <b>17. Immediate Effects:</b>  <b>18. Delayed Effects:</b>  <b>19. Chronic Effects:</b>  <b>20. Special Health Effects:</b></p>	<p><b>May cause drowsiness, vomiting, diarrhea, cramps</b>  <b>May cause drowsiness, vomiting, diarrhea, cramps</b>  <b>May cause drowsiness, vomiting, diarrhea, cramps</b>  <b>May cause drowsiness, vomiting, diarrhea, cramps</b>  <b>Seek medical attention</b></p>

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**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)

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**1. TRANSPORT INFORMATION**

14.1	UN Nr:	UN 1219
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

**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