

**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® - Benchtop Electronic Hand Cleaner (BEHC) <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	5-90%	CnHmOp	N/E
7732-18-5	DI Water	5-90%	HmOp	N/E
25265-71-8	Oxybispropanol	5-90%	CnHmOp	N/E

2.1	Substances presenting a health hazard:	All GlobalTech® solvents are CFC, HCFC, & ODS FREE
2.2	Exposure Limit Value:	2000 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: 1, Fire: 3, Reactivity: 0 HMIS Refer to Section 11 - Toxicological Information

**MATERIAL SAFETY DATA SHEET
EURO FORMAT**

1. FIRST AID MEASURES

4.1	<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>Wash with soap and water if irritation occurs Reddening after contact Reddening after contact If prolonged contact causes irritation, discontinue Wash with soap and water</p> <p>Flush with large amounts of cool water Irritation can cause eye reddening Irritation can cause eye reddening Irritation can cause eye reddening Flush with large amounts of water</p> <p>Move to fresh air May cause irritation to mucous membranes May cause irritation to mucous membranes May cause irritation to mucous membranes 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>
-----	---	---

2. FIRE FIGHTING MEASURES

5.1	Suitable Extinguishing Media:	CO2, Dry Chemical, Foam, Water Spray
5.2	Unsuitable Extinguishing Media:	"Alcohol" Foam
5.3	Exposure Hazards:	Vapors may settle in low areas or travel to sources of ignition
5.4	Combustion Products: Resulting Gases:	Oxides of Carbon
5.5	Protective Equipment for Firefighters:	Normal protective equipment

**MATERIAL SAFETY DATA SHEET
EURO FORMAT**

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:	2000 ppm ACGIH Calculated
8.3	<i>Recommended Monitoring Procedures:</i>	Refer to Country, State & Local ordinances
8.4	<u>Personal Protection:</u>	
	<i>Respiratory Protection:</i>	Not normally required
	<i>Hand Protection:</i>	N/A - Presaturated wipe/Hand Cleaner
	<i>Eye Protection:</i>	Safety Glasses or Goggles
	<i>Skin Protection:</i>	N/A - Presaturated wipe/Hand Cleaner
8.5	CEN Standards:	

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

2. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Water clear liquid
9.2	Odor:	Slight IPA Odor
9.3	P.H.:	7
9.4	Boiling Point:	>88°C
9.5	Melting Point/Freezing Point:	N/E
9.6	Flash Point:	28°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 heat and flame. Keep from oxidizing agents, chlorinated materials, caustics, amines, alkanolamines, aldehydes and ammonia
9.11	Vapor Pressure:	N/A
9.12	Relative Density:	0.962-0.972
9.13	Solubility:	
	1. Water Solubility:	Complete
	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 and flame Keep from oxidizing agents, chlorinated materials, caustics, amines, alkanolamines, aldehydes and ammonia
	4. Vapor Density:	<1
	5. Miscibility:	Complete with water
	6. Evaporation Rate:	<1.0 (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:	Keep away from heat and flame. Keep from oxidizing agents, chlorinated materials, caustics, amines, alkanolamines, aldehydes and ammonia
	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. Degradation to unstable products:	None

MATERIAL SAFETY DATA SHEET

EURO FORMAT

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 contact Reddening after contact If prolonged contact causes irritation, discontinue If prolonged contact causes irritation, discontinue 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>Irritating, can cause eye reddening Irritating, can cause eye reddening Irritating, can cause eye reddening Irritating, can 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>Move to fresh air May cause irritation to mucous membranes May cause irritation to mucous membranes May cause irritation to mucous membranes 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>May cause drowsiness, vomiting, diarrhea, cramps May cause drowsiness, vomiting, diarrhea, cramps May cause drowsiness, vomiting, diarrhea, cramps May cause drowsiness, vomiting, diarrhea, cramps Seek medical attention</p>

**MATERIAL SAFETY DATA SHEET
EURO FORMAT**

12. ECOLOGICAL INFORMATION

12.1	Mobility: ■ Distribution to environmental compartments: ■ Surface tension: ■ Absorption / desorption: ■ Physical & chemical properties:	N/E N/E N/E Refer to section 9
12.2	Degradability: ■ Biotic and abiotic degradation: ■ Acrobic and anaerobic degradation: ■ Persistence:	N/E N/E N/E
12.3	Accumulation: ■ Bioaccumulation potential: ■ Biomagnification:	N/E N/E
12.4	Short and Long Term Effects on: ■ Ecotoxicity: ■ aquatic organisms: ■ soil organisms: ■ plants and terrestrial animals: ■ Other Adverse Effects: ■ ozone depletion potential: ■ photochemical ozone creation potential: ■ effects on waste water treatment plants:	N/E N/E N/E None N/E N/E

13. DISPOSAL CONSIDERATIONS

13.1	Safe Handling:	Keep away from heat, flame, and spark; store at ambient temperature, wear 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)

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: Sub-Risk: Packing Group: Proper Shipping Name:	3 N/A III Flammable Liquid, N.O.S. 2-Propanol, Water, Oxybispropanol

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