

# SAFETY DATA SHEET

### 1. Identification

LPS® Electra-X
00816
An aggressive non-flammable solvent blend for the removal of dirt, moisture, dust, flux and oxides from the internal components of electronic or precision equipment such as circuit boards, and the internal components of electronic devices used in factories and other industrial settings.
None known.
Distributor information
ITW Pro Brands
4647 Hugh Howell Rd.
Tucker, GA 30084
(U.S.A.)
Tel: +1 770-243-8800
1-800-424-9300 (inside U.S.)
+001 703-527-3887 (outside U.S.)
www.lpslabs.com
lpssds@itwprobrands.com

### 2. Hazard(s) identification

Physical hazards	Gases under pressure	Liquefied gas
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2 (Liver, Central Nervous System)
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word Hazard statement

Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May damage fertility or the unborn child. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs (Liver, Central Nervous System) through prolonged or repeated exposure.

#### Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see this label). Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. 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 exposed or concerned: Get medical advice/attention.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
n-Propyl Bromide		106-94-5	60 - 70
Ethane, 1,1,1,2-tetrafluoro-(hfc-134a)		811-97-2	30 - 40
1-Propanol		71-23-8	1 - 5
1,2 Butylene Oxide		106-88-7	< 1
t-Butanol		75-65-0	< 1

# 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Skin irritation. Defatting of the skin. May cause redness and pain. Exposed individuals may experience eye tearing, redness, and discomfort. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Call a POISON CENTER or doctor/physician if you feel unwell.
5. Fire-fighting measures	
Suitable extinguishing media	Powder. Alcohol resistant foam. Water spray. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Pressurized container may explode when exposed to heat or flame.

### 6. Accidental release measures

U. Accidental release meas	50165
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Isolate area until gas has dispersed. Use water spray to reduce vapors or divert vapor cloud drift. Scoop up used absorbent into drums or other appropriate container. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage,	Level 1 Aerosol.
including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Store locked up. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

# 8. Exposure controls/personal protection

### Oc

1-Propanol (CAS 71-23-8)   PEL   500 mg/m3     1-Butanol (CAS 75-65-0)   PEL   300 mg/m3     100 ppm   US. ACGIH Threshold Limit Values   100 ppm     Components   Type   Value     1-Propanol (CAS 71-23-8)   TWA   100 ppm     1-Propanol (CAS 71-23-8)   TWA   100 ppm     n-Propyl Bromide (CAS   TWA   0.1 ppm     106-94-5)   TWA   00 ppm     t-Butanol (CAS 75-65-0)   TWA   100 ppm     US. NIOSH: Pocket Guide to Chemical Hazards   250 ppm     Components   Type   Value     1-Propanol (CAS 71-23-8)   STEL   625 mg/m3     1-Propanol (CAS 71-23-8)   STEL   250 ppm     1-Propanol (CAS 75-65-0)   STEL   450 mg/m3     t-Butanol (CAS 75-65-0)   STEL   450 mg/m3     150 ppm   TWA   300 mg/m3     100 ppm   TWA   300 mg/m3     100 ppm   TWA   300 mg/m3     100 ppm   TWA   300 mg/m3	Components	Туре	Value	
t-Butanol (CAS 75-65-0) PEL 300 mg/m3 100 ppm US. ACGIH Threshold Limit Values Components Type Value 1-Propanol (CAS 71-23-8) TWA 100 ppm n-Propyl Bromide (CAS TWA 0.1 ppm 106-94-5) t-Butanol (CAS 75-65-0) TWA 100 ppm US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value 1-Propanol (CAS 71-23-8) STEL 625 mg/m3 250 ppm TWA 500 mg/m3 200 ppm t-Butanol (CAS 75-65-0) STEL 450 mg/m3 150 ppm TWA 300 mg/m3	1-Propanol (CAS 71-23-8)	PEL	500 mg/m3	
US. ACGIH Threshold Limit Values Components Type Value 1-Propanol (CAS 71-23-8) TWA 100 ppm n-Propyl Bromide (CAS TWA 0.1 ppm 106-94-5) t-Butanol (CAS 75-65-0) TWA 100 ppm US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value 1-Propanol (CAS 71-23-8) STEL 625 mg/m3 250 ppm TWA 500 mg/m3 200 ppm t-Butanol (CAS 75-65-0) STEL 450 mg/m3 100 ppm			200 ppm	
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106-94-5) t-Butanol (CAS 75-65-0)TWA100 ppmUS. NIOSH: Pocket Guide to Chemical Hazards ComponentsValueComponentsTypeValue1-Propanol (CAS 71-23-8)STEL625 mg/m3 250 ppm1-Propanol (CAS 75-65-0)STEL500 mg/m3 200 ppmt-Butanol (CAS 75-65-0)STEL450 mg/m3 150 ppmTWA300 mg/m3150 ppm	1-Propanol (CAS 71-23-8)	TWA	100 ppm	
US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value 1-Propanol (CAS 71-23-8) STEL 625 mg/m3 250 ppm TWA 500 mg/m3 200 ppm t-Butanol (CAS 75-65-0) STEL 450 mg/m3 150 ppm TWA 300 mg/m3		TWA	0.1 ppm	
Components     Type     Value       1-Propanol (CAS 71-23-8)     STEL     625 mg/m3 250 ppm       TWA     500 mg/m3 200 ppm       t-Butanol (CAS 75-65-0)     STEL     450 mg/m3 150 ppm       TWA     300 mg/m3	-Butanol (CAS 75-65-0)	TWA	100 ppm	
I-Propanol (CAS 71-23-8)     STEL     625 mg/m3       TWA     500 mg/m3       200 ppm       t-Butanol (CAS 75-65-0)     STEL       TWA     300 mg/m3       TWA     300 mg/m3	US. NIOSH: Pocket Guide to Chem	ical Hazards		
t-Butanol (CAS 75-65-0) STEL 250 ppm   TWA 500 mg/m3   150 ppm   TWA 300 mg/m3	Components	Туре	Value	
TWA 500 mg/m3   200 ppm   t-Butanol (CAS 75-65-0) STEL   450 mg/m3   150 ppm   TWA 300 mg/m3	1-Propanol (CAS 71-23-8)	STEL	625 mg/m3	
t-Butanol (CAS 75-65-0) STEL 200 ppm 150 ppm TWA 300 mg/m3			250 ppm	
t-Butanol (CAS 75-65-0) STEL 450 mg/m3 150 ppm TWA 300 mg/m3		TWA	500 mg/m3	
150 ppm TWA 300 mg/m3			200 ppm	
TWA 300 mg/m3	t-Butanol (CAS 75-65-0)	STEL	450 mg/m3	
			150 ppm	
100 ppm		TWA	300 mg/m3	
			100 ppm	

US. Workplace Environme Components	ental Exposure Level (WEEL) Type		alue	Form
1,2 Butylene Oxide (CAS 106-88-7)	TWA	5.	9 mg/m3	
Ethane, 1,1,1,2-tetrafluoro-(hfc-134a ) (CAS 811-97-2)	TWA		ppm )00 ppm	8 hour
Biological limit values	No biological exposure limi	ts noted for the ingredient(	s).	
Exposure guidelines				
US - California OELs: Skir	n designation			
1-Propanol (CAS 71-23 n-Propyl Bromide (CAS <b>US - Minnesota Haz Subs</b>		Can be absorbed thro Can be absorbed thro		
1-Propanol (CAS 71-23		Skin designation appli signation	es.	
1-Propanol (CAS 71-23		Can be absorbed thro	ugh the skin.	
Appropriate engineering controls		litions. If applicable, use pr Is to maintain airborne leve	ocess enclosu els below reco	rres, local exhaust ventilation, mmended exposure limits. If
Individual protection measure	s, such as personal protectiv	ve equipment		
Eye/face protection	Wear safety glasses with s are recommended.	ide shields (or goggles). E	e wash fount/	ain and emergency showers
Skin protection				
Hand protection	Viton or nitrile rubber glove	s are recommended.		
Other	Wear appropriate chemical	l resistant clothing.		
Respiratory protection	When workers are facing c certified respirators. Chemi			
Thermal hazards	Not applicable.			
General hygiene considerations	When using, do not eat, dri as washing after handling t wash work clothing and pro	he material and before eat	ing, drinking, a	
9. Physical and chemica	I properties			
Appearance	Liquid.			
Physical state	Gas.			
	• ·			

Filysical state	Gas.
Form	Aerosol.
Color	Clear
Odor	Strong.
Odor threshold	Not established
рН	Not applicable
Melting point/freezing point	Not established
Initial boiling point and boiling range	158 °F (70 °C)
Flash point	< 73.4 °F (< 23.0 °C) Tag Closed Cup
Evaporation rate	6 BuAc
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	4 %
Flammability limit - upper (%)	8 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.

Vapor pressure	> 100 mm Hg @20°C
Vapor density	~4.3 (air = 1)
Relative density	Not available.
Solubility(ies)	
Solubility (water)	3 - 5 %
Partition coefficient (n-octanol/water)	>1
Auto-ignition temperature	> 914 °F (> 490 °C)
Decomposition temperature	Not established
Viscosity	Not available.
Other information	
Heat of combustion	12 kJ/g
Percent volatile	100 %
Specific gravity	1.29 - 1.32 @20°C
VOC	70.1 % per US State and Federal Consumer Product Regulations

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Aluminum. Alkali earth metals. Alkaline metals.
Hazardous decomposition products	Carbon oxides. Hydrogen bromide. Hydrogen fluoride.

### 11. Toxicological information

### Information on likely routes of exposure

information on likely routes of e	
Inhalation	Irritating to respiratory system. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Irritating to eyes, respiratory system and skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Behavioral changes. Narcosis. Decrease in motor functions.

#### Information on toxicological effects

Acute toxicity

Narcotic effects. May cause respiratory irritation.

Components	Species	Test Results
1,2 Butylene Oxide (CAS 106-88-7	)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	1500 - 2950 mg/kg, 24 Hours
		1.77 ml/kg, 24 Hours
Inhalation		
LC100	Rat	8000 ppm, 4 Hours
Vapor		
LC50	Rat	> 6.3 mg/l
Oral		
LD50	Rat	1 - 1.58 mg/kg
		1100 μl/kg

Components	Species	Test Results	
		1.3 ml/kg	
1-Propanol (CAS 71-23-8)			
<u>Acute</u>			
<b>Dermal</b> LD50	Rabbit	4022 mg//cg_24 Llouro	
	Raddil	4032 mg/kg, 24 Hours	
<b>Inhalation</b> Vapor			
LC50	Rat	> 13548 ppm, 4 Hours	
		> 26.76 mg/l, 7 Hours	
		> 9.8 mg/ml, 4 Hours	
Oral		> 5.0 mg/m, + 10013	
LD50	Mouse	6800 mg/kg	
LDOU	Rabbit	2.8 g/kg	
	Rat	1870 mg/kg	
	)	1.87 g/kg	
n-Propyl Bromide (CAS 106-94-5	)		
<u>Acute</u> Dermal			
LD50	Rabbit	>= 10 ml/kg, 24 Hours	
2000	Rat	> 2000 mg/kg, 24 Hours	
Inhalation	nat	2000 Hig/kg, 24 Hours	
Vapor			
LC50	Rat	35000 mg/m3, 4 Hours	
LC50	Rat	14374 ppm, 4 Hours	
		7000 mg/l, 4 Hours	
		253 mg/l, 30 Minutes	
Vapor			
LC50	Rat	25 - 35 mg/l, 6 Hours	
Oral		<i><i><i>S</i><sup>7</sup></i></i>	
LD50	Rabbit	540 mg/kg	
	Rat	> 2000 mg/kg	
-Butanol (CAS 75-65-0)			
Acute			
Oral			
LD50	Rabbit	3.6 g/kg	
	Rat	3.5 g/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	'n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected	to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer	·.	
ACGIH Carcinogens			
1-Propanol (CAS 71-23- n-Propyl Bromide (CAS		A4 Not classifiable as a human carcinogen. A3 Confirmed animal carcinogen with unknown relevance to	
t-Butanol (CAS 75-65-0)		humans. A4 Not classifiable as a human carcinogen.	

1,2 Butylene Oxide (CAS	Evaluation of Carcinogenicity 3 106-88-7) ed Substances (29 CFR 1910.	2B Possibly carcinogenic to humans.
Not regulated.		
	ogram (NTP) Report on Carci	-
n-Propyl Bromide (CAS 1	106-94-5)	Reasonably Anticipated to be a Human Carcinogen.
Reproductive toxicity	May damage fertility or the unborn child.	
Specific target organ toxicity - single exposure	May cause respiratory irritati	on. May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	May cause damage to organ exposure.	s (Liver, Central Nervous System) through prolonged or repeated
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May cause damage to organ	s through prolonged or repeated exposure.
Further information	Symptoms may be delayed.	

### 12. Ecological information

Harmful to aquatic life with long lasting effects. Ecotoxicity Components Species **Test Results** 1-Propanol (CAS 71-23-8) Aquatic Crustacea **EC50** Water flea (Daphnia magna) 3339 - 3977 mg/l, 48 hours Fish LC50 Bleak (Alburnus alburnus) 3000 - 4000 mg/l, 96 hours n-Propyl Bromide (CAS 106-94-5) Aquatic Fish LC50 Fathead minnow (Pimephales promelas) 67.3 mg/l, 96 hours t-Butanol (CAS 75-65-0) Aquatic Crustacea EC50 Water flea (Daphnia magna) 4607 - 6577 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 6130 - 6700 mg/l, 96 hours Not inherently biodegradable. Persistence and degradability **Bioaccumulative potential** Not available. Partition coefficient n-octanol / water (log Kow) LPS® Electra-X > 1 1-Propanol 0.25 Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) 1.06 n-Propyl Bromide 2.1 t-Butanol 0.35 Mobility in soil Readily absorbed into soil. Other adverse effects None known. 13. Disposal considerations **Disposal instructions** Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush.

Dispose of contents/container in accordance with local/regional/national/international regulations.
Dispose in accordance with all applicable regulations.
D001: Waste Flammable material with a flash point <140 F D003: Waste Reactive material
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

# 14. Transport information

DOT

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	2L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	, , , , , , , , , , , , , , , , , , , ,
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, non-flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	





# 15. Regulatory information

io. negulatory information				
US federal regulations	This product is a "Haza Standard, 29 CFR 191 All components are on	0.1200.	defined by the OSHA Hazard C Inventory List.	Communication
TSCA Section 12(b) Export	Notification (40 CFR 70	7, Subpt. D)		
Not regulated. CERCLA Hazardous Substa	ance List (40 CFR 302.4)	)		
1,2 Butylene Oxide (CAS SARA 304 Emergency relea		Listed.		
Not regulated. OSHA Specifically Regulate	ed Substances (29 CFR	1910.1001-1050)		
Not regulated.				
Superfund Amendments and Re				
Hazard categories	Immediate Hazard - Ye Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No	i		
SARA 302 Extremely hazard Not listed.	dous substance			
SARA 311/312 Hazardous chemical	Yes			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
1,2-BUTYLENE OXIDE		106-88-7	< 1	
Other federal regulations				
Clean Air Act (CAA) Sectior		lutants (HAPs) List		
1,2 Butylene Oxide (CAS Clean Air Act (CAA) Sectior		ase Prevention (40 (	CFR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
FEMA Priority Substand	ces Respiratory Health a	and Safety in the Fla	avor Manufacturing Workplac	e
1-Propanol (CAS 71	-23-8)	Low priority		
US state regulations				
US. California Controlled St	ubstances. CA Departm	ent of Justice (Calif	ornia Health and Safety Code	e Section 11100)
Not listed.	-	-	-	
US. California. Candidate C (a))	hemicals List. Safer Co	nsumer Products R	egulations (Cal. Code Regs, t	tit. 22, 69502.3, subd.
1,2 Butylene Oxide (CAS n-Propyl Bromide (CAS 1 t-Butanol (CAS 75-65-0)	106-94-5)			
US. Massachusetts RTK - S	ubstance List			
1,2 Butylene Oxide (CAS 1-Propanol (CAS 71-23-8 n-Propyl Bromide (CAS 1 t-Butanol (CAS 75-65-0)	3)			

#### US. New Jersey Worker and Community Right-to-Know Act

1,2 Butylene Oxide (CAS 106-88-7) 1-Propanol (CAS 71-23-8) n-Propyl Bromide (CAS 106-94-5) t-Butanol (CAS 75-65-0)

#### US. Pennsylvania Worker and Community Right-to-Know Law

1,2 Butylene Oxide (CAS 106-88-7) 1-Propanol (CAS 71-23-8) n-Propyl Bromide (CAS 106-94-5) t-Butanol (CAS 75-65-0)

#### **US. Rhode Island RTK**

1,2 Butylene Oxide (CAS 106-88-7) t-Butanol (CAS 75-65-0)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

n-Propyl Bromide (CAS 106-94-5)	Listed: December 7, 2004
US - California Proposition 65 - CRT: Listed	date/Female reproductive toxin

n-Propyl Bromide (CAS 106-94-5) Listed: December 7, 2004

#### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

n-Propyl Bromide (CAS 106-94-5) Listed: December 7, 2004

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

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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.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.