### LA-CO Industries, Inc.

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR) Date of issue: 06/03/1993Revision date: 03/05/2015Supersedes: 02/04/2013 Version: 3.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form

Trade name

: Mixture

: BRITE Regular Soldering Flux Liquid

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Soldering flux

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

LA-CO Industries, Inc. 1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746 Phone: (847) 956-7600 Fax: (847) 956-9885 E-mail: customer\_service@laco.com

#### 1.4. Emergency telephone number

Emergency number

: 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification in accordance with the Globally Harmonized Standard

Flam. Liq. 3 H226 STOT SE 3 H335 Full text of H-phrases: see section 16

#### 2.2 Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)

Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)



- : Warning
- : H226 Flammable liquid and vapour
- H335 May cause respiratory irritation
- : P210 Keep away from heat, open flames, sparks. No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof lighting, ventilating, electrical equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P261 Avoid breathing mist, spray, vapours
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective clothing, protective gloves

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P312 - Call a doctor if you feel unwell

- P370+P378 In case of fire: Use Suitable extinguishing media to extinguish
- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P403+P235 Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

#### 2.3. Other hazards

No additional information available

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### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	% (w/w)	GHS-US classification
Ethanolamine hydrochloride	(CAS No) 2002-24-6	27.27	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ammonium chloride	(CAS No) 12125-02-9	6.95	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
ethanol	(CAS No) 64-17-5	5.09	Flam. Liq. 2, H225
Isopropanol	(CAS No) 67-63-0	0.90	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
polythylene glycol trimethylphenylnonyl ether	(CAS No) 60828-78-6	0.33 - 0.38	Eye Dam. 1, H318
propyl acetate	(CAS No) 109-60-4	0.30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of H-phrases: see section 16

### **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.</li> </ul>
First-aid measures after skin contact	: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
First-aid measures after eye contact	: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed

### 4.2. Most important symptoms and enects, both acute and delayed

Symptoms/injuries after inhalation	:	May cause respiratory irritation.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Reactivity	: No dangerous reactions known.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.
SECTION 6: Accidental release	mageuras

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Avoid all eye and skin contact and do not breathe vapour and mist. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

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6.1.1. For non-emergency person	nnel
Protective equipment	: In case of inadequate ventilation wear respiratory protection.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	S
Protective equipment	: Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	S
Do not discharge into drains or the env	vironment.
6.3. Methods and material for c	containment and cleaning up
For containment	: Stop the flow of material, if this is without risk. Contain and/or absorb spill with inert material, then place in suitable container.
Methods for cleaning up	: Take up in non-combustible absorbent material and shove into container for disposal.
Section 13: disposal information. Secti	on 7: safe handling. Section 8: personal protective equipment.
Section 13: disposal information. Secti SECTION 7: Handling and sto	on 7: safe handling. Section 8: personal protective equipment. orage
Section 13: disposal information. Section <b>SECTION 7: Handling and ste</b> <b>7.1.</b> Precautions for safe handl	ion 7: safe handling. Section 8: personal protective equipment. orage ing
Section 13: disposal information. Secti SECTION 7: Handling and sto 7.1. Precautions for safe handl Additional hazards when processed	ing  : Handle empty containers with care because residual vapours are flammable.
Section 13: disposal information. Secti SECTION 7: Handling and sto	<ul> <li>ion 7: safe handling. Section 8: personal protective equipment.</li> <li>orage</li> <li>ing         <ul> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>Avoid breathing mist, spray, vapours. Use only outdoors or in a well-ventilated area. No oper flames. No smoking. Take precautionary measures against static discharge. Use only non-</li> </ul> </li> </ul>
Section 13: disposal information. Secti <b>SECTION 7: Handling and sto</b> <b>7.1. Precautions for safe handl</b> Additional hazards when processed Precautions for safe handling Hygiene measures	Ing  I Handle empty containers with care because residual vapours are flammable.  Avoid breathing mist, spray, vapours. Use only outdoors or in a well-ventilated area. No oper flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.  Wash hands and other exposed areas with mild soap and water before eating, drinking or
Section 13: disposal information. Secti <b>SECTION 7: Handling and sto</b> <b>7.1. Precautions for safe handl</b> Additional hazards when processed Precautions for safe handling Hygiene measures	<ul> <li>ing</li> <li>: Handle empty containers with care because residual vapours are flammable.</li> <li>: Avoid breathing mist, spray, vapours. Use only outdoors or in a well-ventilated area. No oper flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.</li> <li>: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>
Section 13: disposal information. Secti <b>SECTION 7: Handling and sto</b> <b>7.1. Precautions for safe handl</b> Additional hazards when processed Precautions for safe handling Hygiene measures <b>7.2. Conditions for safe storag</b>	<ul> <li>on 7: safe handling. Section 8: personal protective equipment.</li> <li>orage</li> <li>ing <ul> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>Avoid breathing mist, spray, vapours. Use only outdoors or in a well-ventilated area. No ope flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul> </li> <li>e, including any incompatibilities <ul> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/</li> </ul> </li> </ul>

Incompatible products: Oxidizer. Cyanides and sulfide salts.Incompatible materials: Heat sources. Sources of ignition.

## Prohibitions on mixed storage 7.3. Specific end use(s)

## Flux.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

BRITE Regular Soldering Flux Liquid				
ACGIH	Not applicable			
OSHA	Not applicable			
ethanol (64-17-5)	ethanol (64-17-5)			
ACGIH	ACGIH TWA (mg/m³)	1884 mg/m³		
ACGIH	ACGIH TWA (ppm)	1000 ppm		
ACGIH	ACGIH STEL (ppm)	1000 ppm		
ACGIH	Remark (ACGIH)	URT irr		
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³		
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm		
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	1880 mg/m <sup>3</sup>		
Canada (Quebec)	VEMP (ppm)	1000 ppm		
Isopropanol (67-63-0)				
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	490 mg/m³		
ACGIH	ACGIH TWA (ppm)	200 ppm		

: Keep away from incompatible materials.

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Isopropanol (67-63-0)			
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>	
ACGIH	ACGIH STEL (ppm)	400 ppm	
ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	400 ppm	
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>	
Canada (Quebec)	VECD (ppm)	500 ppm	
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>	
Canada (Quebec)	VEMP (ppm)	400 ppm	
propyl acetate (109-60-	4)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	835 mg/m <sup>3</sup>	
ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	1040 mg/m <sup>3</sup>	
ACGIH	ACGIH STEL (ppm)	250 ppm	
ACGIH	Remark (ACGIH)	Eye & URT irr	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	840 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	200 ppm	
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	1040 mg/m³	
Canada (Quebec)	VECD (ppm)	250 ppm	
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	835 mg/m <sup>3</sup>	
Canada (Quebec)	VEMP (ppm)	200 ppm	
ammonium chloride (12125-02-9)			
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>	
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>	
ACGIH	Remark (ACGIH)	Eye & URT irr	
OSHA	Not applicable		
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>	
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>	
polythylene glycol trimethylphenylnonyl ether (60828-78-6)			
ACGIH	Not applicable		
OSHA	Not applicable		
Ethanolamine hydroch			
ACGIH	Not applicable		
OSHA	Not applicable		

8.2. Exposure controls	
Appropriate engineering controls	: Avoid creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: It is a good industrial hygiene practice to minimize skin contact. In case of repeated or prolonged contact wear gloves. rubber.
Eye protection	: In case of splashing or aerosol production: protective goggles.
Respiratory protection	<ul> <li>In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.</li> </ul>

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

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Physical state	: Liquid
Colour	: Yellow. light brown.
Odour	: No data available

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Odour threshold	: No data available
рН	: 6.5 - 7
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: 42.2 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content

: 6%

SECTION 10: Stability	y and reactivity
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10.1. Reactivity

No dangerous reactions known.

#### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Avoid excessive heat or cold. Open flame. Overheating. Direct sunlight. Heat. Sparks.

#### 10.5. Incompatible materials

Oxidizing agent. Cyanides and sulfide salts.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide. ammonia. hydrogen chloride. ammonium chloride. May release flammable gases.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity

: Not classified

BRITE Regular Soldering Flux Liquid				
LD50 oral rat	> 5000 mg/kg male			
ethanol (64-17-5)				
LD50 oral rat	10470 mg/kg			
LD50 dermal rabbit	> 20000 mg/kg			
LC50 inhalation rat (mg/l)	133.8 mg/l/4h			
ATE CLP (oral)	10470.000 mg/kg bodyweigh	10470.000 mg/kg bodyweight		
ATE CLP (vapours)	133.800 mg/l/4h			
ATE CLP (dust,mist)	133.800 mg/l/4h			
Isopropanol (67-63-0)				
LD50 oral rat	5840 mg/kg			
LD50 dermal rabbit	16.4 ml/kg			
LC50 inhalation rat (ppm)	> 10000 ppm/4h			
05/03/2015	EN (English)	SDS Ref.: LACO1412006	5/10	

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Isopropanol (67-63-0)		
ATE CLP (oral)	5840.000 mg/kg bodyweight	
propyl acetate (109-60-4)		
LD50 oral rat	8700 mg/kg	
LD50 dermal rabbit	> 17800 mg/kg	
LC50 inhalation rat (mg/l)	32 mg/l/4h	
ATE CLP (oral)	8700.000 mg/kg bodyweight	
ATE CLP (vapours)	32.000 mg/l/4h	
ATE CLP (dust,mist)	32.000 mg/l/4h	
ammonium chloride (12125-02-9)		
LD50 oral rat	1410 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
ATE CLP (oral)	1410.000 mg/kg bodyweight	
polythylene glycol trimethylphenylnonyl eth	er (60828-78-6)	
LD50 oral rat	3300 mg/kg	
LD50 dermal rat	8874 mg/kg	
ATE CLP (oral)	3300.000 mg/kg bodyweight	
ATE CLP (dermal)	8874.000 mg/kg bodyweight	
Skin corrosion/irritation Serious eye damage/irritation	<ul> <li>Not classified.</li> <li>(Not irritating to rabbits on cutaneous application)</li> <li>Not classified.</li> </ul>	
	(Not irritating to rabbits on ocular application)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Isopropanol (67-63-0)		
IARC group	3 - Not classifiable	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	
ammonium chloride (12125-02-9)		
NOAEL (subchronic, oral, animal/male, 90 days)	>= 580 mg/kg bodyweight 56 days	
Aspiration hazard	: Not classified	
Potential adverse human health effects and sy	ymptoms	
Symptoms/injuries after inhalation	: May cause respiratory irritation.	
Likely routes of exposure	: Skin and eye contact;Inhalation	
SECTION 12: Ecological information		
12.1 Toxicity		

ethanol (64-17-5)	
LC50 fish 1	14200 mg/l
EC50 Daphnia 1	5012 mg/l
Isopropanol (67-63-0)	
LC50 fish 1	10000 mg/l
propyl acetate (109-60-4)	
LC50 fish 1	60 mg/l 96 h
EC50 Daphnia 1	91.5 mg/l 48 h
ammonium chloride (12125-02-9)	
LC50 fish 1	209 mg/l 96 h
EC50 Daphnia 1	101 mg/l 48 h

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er (60828-78-6)
10 (10 - 100) mg/l
> 96 % 28 d
Readily biodegradable.
Readily biodegradable.
62 % 5 d
er (60828-78-6)
Not readily biodegradable.
Not expected to bioaccumulate.
Not expected to bioaccumulate.
1.23
S
: Dispose in a safe manner in accordance with local/national regulations.
: Handle empty containers with care because residual vapours are flammable.
: Avoid release to the environment.
: UN1170 Ethanol solutions, 3, III
: UN1170
. 001170
: Ethanol solutions
<ul> <li>Ethanol solutions</li> <li>3 - Flammable liquid</li> </ul>
: Ethanol solutions
<ul> <li>Ethanol solutions</li> <li>3 - Flammable liquid</li> <li>III - Minor Danger</li> </ul>
<ul> <li>Ethanol solutions</li> <li>3 - Flammable liquid</li> <li>III - Minor Danger</li> <li>UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III, (D/E)</li> </ul>
<ul> <li>Ethanol solutions</li> <li>3 - Flammable liquid</li> <li>III - Minor Danger</li> <li>UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III, (D/E)</li> <li>ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)</li> </ul>
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<ul> <li>Ethanol solutions</li> <li>3 - Flammable liquid</li> <li>III - Minor Danger</li> <li>UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III, (D/E)</li> <li>ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)</li> <li>III</li> <li>3 - Flammable liquid</li> <li>UN 1170</li> <li>ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)</li> <li>3 - Flammable liquids</li> </ul>
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Packing group (IATA)

: 111

15.1. US Federal regulations		
ethanol (64-17-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Isopropanol (67-63-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes	Fire hazard	
propyl acetate (109-60-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
ammonium chloride (12125-02-9)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb	
polythylene glycol trimethylphenylnonyl ether	(60828-78-6)	
Listed on the United States TSCA (Toxic Substan		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). N - N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.	
Ethanolamine hydrochloride (2002-24-6)		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
15.2. International regulations		
CANADA		
ethanol (64-17-5)		
Listed on the Canadian DSL (Domestic Substance	es List) inventory.	
Isopropanol (67-63-0)		
Listed on the Canadian DSL (Domestic Substance	es List) inventory.	
propyl acetate (109-60-4)		
Listed on the Canadian DSL (Domestic Substance	es List) inventory.	
ammonium chloride (12125-02-9) Listed on the Canadian DSL (Domestic Substances List) inventory.		
polythylene glycol trimethylphenylnonyl ether (60828-78-6) Listed on the Canadian DSL (Domestic Substances List) inventory.		
Ethanolamine hydrochloride (2002-24-6) Listed on the Canadian DSL (Domestic Substances List) inventory.		

#### **EU-Regulations**

#### ethanol (64-17-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Isopropanol (67-63-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## propyl acetate (109-60-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### ammonium chloride (12125-02-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

polythylene glycol trimethylphenylnonyl ether (60828-78
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Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Ethanolamine hydrochloride (2002-24-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

#### **BRITE Regular Soldering Flux Liquid**

All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS). All ingredients are listed in the Toxic Substances Control Act (TSCA).

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

#### 15.3. US State regulations

### ethanol (64-17-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

#### Isopropanol (67-63-0)

U.S. - Minnesota - Hazardous Substance List U.S. - New Jersey - Right to Know Hazardous Substance List

#### propyl acetate (109-60-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

#### ammonium chloride (12125-02-9)

U.S. - Massachusetts - Right To Know List

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other Information	
Indication of changes :	GHS classification information. Revised format. Revised sections: 1 - 16.
Data sources	ACGIH 2000.
	Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html.
	ESIS (European chemincal Substances Information System; accessed at: http://esis.jrc.ec.europa.eu/index.php?PGM=cla.
	European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
	National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.
	OSHA 29CFR 1910.1200 Hazard Communication Standard.
	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
	TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.
Abbreviations and acronyms	ACGIH (American Conference of Governement Industrial Hygienists).
	ATE: Acute Toxicity Estimate.
	CAS (Chemical Abstracts Service) number.
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population.
	OSHA: Occupational Safety & Health Administration.
	PBT: Persistent, Bioaccumulative, Toxic.
	STEL: Short Term Exposure Limits.
	TSCA: Toxic Substances Control Act.
	TWA: Time Weight Average.
Other information :	None.

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NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.	
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.	

#### Full text of H-phrases:

a or n-prirases.	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

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#### LACO NA GHS SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product