

# BRITE Regular Soldering Flux Liquid

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: 06/03/1993 Revision date: 03/05/2015 Supersedes: 02/04/2013  
Version: 3.0

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

### 1.1. Product identifier

Product form : Mixture  
Trade name : 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) : Warning  
Hazard statements (GHS-US) :

H226 - Flammable liquid and vapour  
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

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 : 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.
- 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 effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory irritation.

#### 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 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 personnel

Protective equipment : In case of inadequate ventilation wear respiratory protection.  
Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Do not discharge into drains or the environment.

### 6.3. Methods and material for 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.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : Avoid breathing mist, spray, vapours. Use only outdoors or in a well-ventilated area. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.  
Storage conditions : Keep container tightly closed. Store in a dry, cool and well-ventilated place.  
Incompatible products : Oxidizer. Cyanides and sulfide salts.  
Incompatible materials : Heat sources. Sources of ignition.  
Prohibitions on mixed storage : Keep away from incompatible materials.

### 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)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1884 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	1000 ppm
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
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/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	200 ppm

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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/m <sup>3</sup>
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/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	1040 mg/m <sup>3</sup>
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 hydrochloride (2002-24-6)		
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	: In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.

## SECTION 9: Physical and chemical properties

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

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

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Odour threshold	: No data available
pH	: 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 and reactivity

### 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 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

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<b>Isopropanol (67-63-0)</b>	
ATE CLP (oral)	5840.000 mg/kg bodyweight

<b>propyl acetate (109-60-4)</b>	
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

<b>ammonium chloride (12125-02-9)</b>	
LD50 oral rat	1410 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE CLP (oral)	1410.000 mg/kg bodyweight

<b>polythylene glycol trimethylphenylnonyl ether (60828-78-6)</b>	
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** : Not classified.  
(Not irritating to rabbits on cutaneous application)

**Serious eye damage/irritation** : Not classified.  
(Not irritating to rabbits on ocular application)

**Respiratory or skin sensitisation** : Not classified

**Germ cell mutagenicity** : Not classified

**Carcinogenicity** : Not classified

<b>Isopropanol (67-63-0)</b>	
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

<b>ammonium chloride (12125-02-9)</b>	
NOAEL (subchronic, oral, animal/male, 90 days)	>= 580 mg/kg bodyweight 56 days

**Aspiration hazard** : Not classified

**Potential adverse human health effects and symptoms**

Symptoms/injuries after inhalation : May cause respiratory irritation.

Likely routes of exposure : Skin and eye contact;Inhalation

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>ethanol (64-17-5)</b>	
LC50 fish 1	14200 mg/l
EC50 Daphnia 1	5012 mg/l

<b>Isopropanol (67-63-0)</b>	
LC50 fish 1	10000 mg/l

<b>propyl acetate (109-60-4)</b>	
LC50 fish 1	60 mg/l 96 h
EC50 Daphnia 1	91.5 mg/l 48 h

<b>ammonium chloride (12125-02-9)</b>	
LC50 fish 1	209 mg/l 96 h
EC50 Daphnia 1	101 mg/l 48 h

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### polythylene glycol trimethylphenylnonyl ether (60828-78-6)

LC50 fish 1	10 (10 - 100) mg/l
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#### 12.2. Persistence and degradability

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

Biodegradation	> 96 % 28 d
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##### Isopropanol (67-63-0)

Persistence and degradability	Readily biodegradable.
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##### propyl acetate (109-60-4)

Persistence and degradability	Readily biodegradable.
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Biodegradation	62 % 5 d
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### polythylene glycol trimethylphenylnonyl ether (60828-78-6)

Persistence and degradability	Not readily biodegradable.
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#### 12.3. Bioaccumulative potential

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

Bioaccumulative potential	Not expected to bioaccumulate.
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##### Isopropanol (67-63-0)

Bioaccumulative potential	Not expected to bioaccumulate.
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##### propyl acetate (109-60-4)

Log Pow	1.23
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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT and TDG

Transport document description : UN1170 Ethanol solutions, 3, III  
UN-No.(DOT) : UN1170  
Proper Shipping Name (DOT) : Ethanol solutions  
Department of Transportation (DOT) Hazard Classes : 3 - Flammable liquid  
Packing group (DOT) : III - Minor Danger

### ADR

Transport document description : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III, (D/E)  
Proper Shipping Name (ADR) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
Packing group (ADR) : III  
Class (ADR) : 3 - Flammable liquid

### Transport by sea

UN-No. (IMDG) : UN 1170  
Proper Shipping Name (IMDG) : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : III

### Air transport

UN-No.(IATA) : UN 1170  
Proper Shipping Name (IATA) : Ethanol solution  
Class (IATA) : 3 - Flammable Liquids

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Packing group (IATA) : III

### SECTION 15: Regulatory information

#### 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 Substances 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 Substances Control Act) inventory

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 Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

**ethanol (64-17-5)**

Listed on the Canadian DSL (Domestic Substances List) inventory.

**Isopropanol (67-63-0)**

Listed on the Canadian DSL (Domestic Substances List) inventory.

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

Listed on the Canadian DSL (Domestic Substances 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)



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### polyethylene glycol trimethylphenylnonyl ether (60828-78-6)

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](http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html).

ESIS (European chemical 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 Government 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

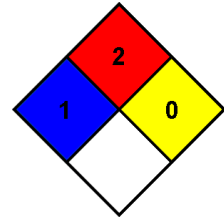
: None.

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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:

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*