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: 07/27/2015

LA-CO Industries, Inc.

Version: 1.0

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

1.1. Product identifier

Product form : Article

Trade name : PRO-LINE® XT PAINT MARKER Yellow, Light Blue

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

Use of the substance/mixture : Paint.

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

Not classified

## 2.2 Label elements

## **GHS-US** labelling

No labelling applicable

### 2.3. Other hazards

No additional information available

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

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	% (w/w)	GHS-US classification
tert-butyl acetate	(CAS No) 540-88-5	41.14 – 41.35 Yellow 36.47 – 36.65 Light Blue	Flam. Liq. 2, H225
Cyclohexanone	(CAS No) 108-94-1	9.82 Yellow 3.08 Light Blue	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332
Butyl acetate	(CAS No) 123-86-4	3.81 – 4.64 Yellow 3.12 – 3.9 Light Blue	Flam. Liq. 3, H226 STOT SE 3, H336
2-methoxy-1-methylethyl acetate	(CAS No) 108-65-6	0.52 – 1.03 Yellow 1.14 – 2.28 Light Blue	Flam. Liq. 3, H226
Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%)	(CAS No) 64742-48-9	1.32 Yellow 1.23 Light Blue	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%)	(CAS No) 64742-95-6	0.15 – 0.74 Yellow 0.12 – 0.59 Light Blue	Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS No) 95-63-6	0.15 – 0.74 Yellow 0.12 – 0.59 Light Blue	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

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

#### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting.

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

Symptoms/injuries : None known.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **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 : Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use

and contained broathing apparatus

self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking. Avoid all eye and skin contact and do not breathe vapour and mist.

## 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Emergency procedures : Stop leak if safe to do so. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (for example cloth).

## 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling

# **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 : 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.

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## 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 closed when not in use. Incompatible products : Oxidizing agent. Acids. Alkali. Moisture.

Incompatible materials : Heat sources.

Heat and ignition sources : Keep away from heat, sparks and flame.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

## 7.3. Specific end use(s)

Marking.

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

## 8.1. Control parameters

PRO-LINE® XT PAINT MARI	PRO-LINE® XT PAINT MARKER Yellow, Light Blue		
ACGIH	Not applicable		
OSHA	Not applicable		
Butyl acetate (123-86-4)			
ACGIH	ACGIH TWA (mg/m³)	713 mg/m³	
ACGIH	ACGIH TWA (ppm)	150 ppm	
ACGIH	ACGIH STEL (mg/m³)	950 mg/m³	
ACGIH	ACGIH STEL (ppm)	200 ppm	
ACGIH	Remark (ACGIH)	Eye & URT irr	
OSHA	OSHA PEL (TWA) (mg/m³)	710 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	150 ppm	
Canada (Quebec)	VECD (mg/m³)	950 mg/m³	
Canada (Quebec)	VECD (ppm)	200 ppm	
Canada (Quebec)	VEMP (mg/m³)	713 mg/m³	
Canada (Quebec)	VEMP (ppm)	150 ppm	
Solvent naphtha (petroleum	), light arom., Low boiling point naphtha - unspecified	(benzene <0.1%) (64742-95-6)	
ACGIH	Not applicable		
OSHA	Not applicable		
1,2,4-trimethylbenzene (95-6	53-6)		
ACGIH	ACGIH TWA (mg/m³)	123 mg/m³	
ACGIH	ACGIH TWA (ppm)	25 ppm	
OSHA	Not applicable		
Canada (Quebec)	VECD (mg/m³)	172 mg/m³	
Canada (Quebec)	VECD (ppm)	35 ppm	
Canada (Quebec)	VEMP (mg/m³)	123 mg/m³	
Canada (Quebec)	VEMP (ppm)	25 ppm	
tert-butyl acetate (540-88-5)			
ACGIH			
OSHA	Not applicable		
Cyclohexanone (108-94-1)	Cyclohexanone (108-94-1)		
ACGIH	ACGIH TWA (mg/m³)	50 mg/m³	
ACGIH	ACGIH TWA (ppm)	20 ppm	
ACGIH	ACGIH STEL (ppm)	50 ppm	
ACGIH	Remark (ACGIH)	Eye & URT irr	
OSHA	OSHA PEL (TWA) (mg/m³)	200 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	50 ppm	
	1	1	

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Cyclohexanone (108-94-1)		
Canada (Quebec)	VEMP (mg/m³)	100 mg/m³
Canada (Quebec)	VEMP (ppm)	25 ppm
Canada (Quebec)	Notations and remarks	(Peau)
2-methoxy-1-methylethyl acetate (108-65-6)		
ACGIH	Not applicable	
OSHA	Not applicable	
Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) (64742-48-9)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (mg/m³)	10 mg/m³
OSHA	Not applicable	

## 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : None under normal use.

Eye protection : None under normal use.

Respiratory protection : None under normal use.

Other information : Do not eat, drink or smoke when using this product.

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

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

Physical state : Liquid

Appearance : Solid marker containing liquid colored paint.

Colour : Variable.
Odour : Solvent.

Odour threshold : No data available pН : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point No data available Boiling point : No data available : 23 - 37.8 °C Flash point 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 : No data available : No data available

Solubility : No data available
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 : 67 %

## **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.

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#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

## 10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

## 10.5. Incompatible materials

Oxidizer. Acids. Alkali. Moisture.

## 10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates: metallic oxides. Carbon oxides (CO, CO2).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Specific target organ toxicity (single

Specific target organ toxicity (repeated

exposure)

exposure)

Acute toxicity	: Not classified
Butyl acetate (123-86-4)	
LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 14112 mg/kg
LC50 inhalation rat (mg/l)	> 21 mg/l/4h
ATE CLP (oral)	10760.000 mg/kg bodyweight
Solvent naphtha (petroleum), light aron	n., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5610 mg/l/4h
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	3415 mg/kg
LD50 dermal rat	3440 mg/kg
LC50 inhalation rat (ppm)	954 ppm
ATE CLP (oral)	3415.000 mg/kg bodyweight
ATE CLP (dermal)	3440.000 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 mg/l/4h
tert-butyl acetate (540-88-5)	
LD50 oral rat	4100 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	4211 ppm 6 h
ATE CLP (oral)	4100.000 mg/kg bodyweight
Cyclohexanone (108-94-1)	
ATE CLP (dust,mist)	1.500 mg/l/4h
2-methoxy-1-methylethyl acetate (108-6	5-6)
LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	4345 ppm 6 h
ATE CLP (oral)	8532.000 mg/kg bodyweight
Naphtha (petroleum), hydrotreated hear	vy (benzene < 0.1%) (64742-48-9)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5610 mg/m³
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Cyclohexanone (108-94-1)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified

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: Not classified

: Not classified

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Aspiration hazard : Not classified

Potential adverse human health effects and symptoms

Likely routes of exposure : Inhalation; Skin and eye contact

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)			
LC50 fish 1	8.2 mg/l		
EC50 Daphnia 1	4.5 mg/l		
EC50 other aquatic organisms 1	3.7 mg/l		
NOEC (acute)	0.5 mg/l		
1,2,4-trimethylbenzene (95-63-6)	1,2,4-trimethylbenzene (95-63-6)		
LC50 fish 1	7.72 mg/l		
LC50 other aquatic organisms 1	3.6 mg/l		
EC50 other aquatic organisms 1	2.356 mg/l		
tert-butyl acetate (540-88-5)			
LC50 fish 1	240 mg/l 96 h		
EC50 Daphnia 1	410 mg/l 24 h		
2-methoxy-1-methylethyl acetate (108-65-6)			
LC50 fish 1	100 - 180 mg/l		
EC50 Daphnia 1	> 500 mg/l 48 h		
ErC50 (algae)	> 1000 mg/l		
Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) (64742-48-9)			
LC50 fish 1	8.2 mg/l		

## 12.2. Persistence and degradability

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)	
Persistence and degradability	Not established.
tert-butyl acetate (540-88-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	50 % 28 d
2-methoxy-1-methylethyl acetate (108-65-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d

## 12.3. Bioaccumulative potential

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)	
Bioaccumulative potential	Not established.
tert-butyl acetate (540-88-5)	
BCF fish 1	5.61
Log Pow	1.64
2-methoxy-1-methylethyl acetate (108-65-6)	
Log Pow	0.43

# 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

Sewage disposal recommendations : Do not dispose of waste into sewer.

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.

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## **SECTION 14: Transport information**

In accordance with DOT and TDG

Transport document description : UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid

filler, and liquid lacquer base), 3, III

UN-No.(DOT) : UN1263

Proper Shipping Name (DOT) : Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and

liquid lacquer base

Transport hazard class(es) (DOT) : 3 - Flammable liquid Packing group (DOT) : III - Minor Danger

ADR

Transport document description : UN 1263 PAINT, 3, III, (D/E)

Proper Shipping Name (ADR) : PAINT Packing group (ADR) : III

Class (ADR) : 3 - Flammable liquid

Transport by sea

UN-No. (IMDG) : UN 1263
Proper Shipping Name (IMDG) : PAINT

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III

Air transport

UN-No. (IATA) : UN 1263
Proper Shipping Name (IATA) : Paint

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : III

## **SECTION 15: Regulatory information**

# 15.1. US Federal regulations Butyl acetate (123-86-4)

Batyl acctato (120 cc 1)	
Listed on the United States	TSCA (Toxic Substances Control Act) inventory

RQ (Reportable quantity, section 304 of EPA's 5000 lb

List of Lists)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 1,2,4-trimethylbenzene (95-63-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## tert-butyl acetate (540-88-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Cyclohexanone (108-94-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 2-methoxy-1-methylethyl acetate (108-65-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) (64742-48-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

#### CANADA

## Butyl acetate (123-86-4)

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

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)

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

## 1,2,4-trimethylbenzene (95-63-6)

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

## tert-butyl acetate (540-88-5)

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

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#### Cyclohexanone (108-94-1)

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

## 2-methoxy-1-methylethyl acetate (108-65-6)

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

Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) (64742-48-9)

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

#### **EU-Regulations**

#### **Butyl acetate (123-86-4)**

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

## Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)

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

#### 1,2,4-trimethylbenzene (95-63-6)

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

#### tert-butyl acetate (540-88-5)

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

#### Cyclohexanone (108-94-1)

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

## 2-methoxy-1-methylethyl acetate (108-65-6)

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

## Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) (64742-48-9)

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

## **National regulations**

#### PRO-LINE® XT PAINT MARKER Yellow, Light Blue

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

## **Butyl acetate (123-86-4)**

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

## tert-butyl acetate (540-88-5)

- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Right to Know List of Hazardous Chemicals
- U.S. Pennsylvania List of Hazardous Substances

# Cyclohexanone (108-94-1)

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

## **SECTION 16: Other information**

Indication of changes

: Orignal document.

Data sources

: ACGIH (American Conference of Government Industrial Hygienists).

European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <a href="http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database">http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</a>

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.

TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

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Abbreviations and acronyms : 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.

TWA: Time Weight Average.

TSCA: Toxic Substances Control Act.

Other information : None.

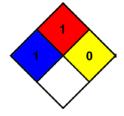
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and not reactive with water.



#### Full text of H-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, 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
Flam. Liq. 4	Flammable liquids, Category 4
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

SDS Prepared by: The Redstone Group, LLC

6077 Frantz Rd. Suite 206

Dublin, OH USA 43016 T 614-923-7472 www.redstonegrp.com

## 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

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