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: 05/06/2015Revision date: 06/24/2015 LA-CO Industries, Inc.

Version: 2.0

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

#### **Product identifier**

Product form Mixture

: LUMBER CRAYON 500 : White, Yellow, Red, Green, Blue, Orange, Purple, Fluorescent Trade name

Orange, Fluorescent Yellow, Fluorescent Green

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

Use of the substance/mixture : Marking

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

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

#### **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

Label elements 2.2

#### **GHS** labelling

No labelling applicable

#### 2.3. Other hazards

#### Unknown acute toxicity (GHS)

51.98 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

51.98 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

51.98 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

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

#### 3.1. **Substance**

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	% (w/w)	GHS classification
barium bis[2-[(2- hydroxynaphthyl)azo]naphthalenesuphon ate]	(CAS No) 1103-38-4	2.3 Red	Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 3, H412
Iron oxide red	(CAS No) 1309-37-1	2.15 Red	Aquatic Chronic 2, H411
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2- ethoxyphenyl)-3-hydroxynaphthalene-2- carboxamide, C.I. Pigment Red 170 (naphthol <1%)	(CAS No) 2786-76-7	0.67 Purple	Skin Sens. 1, H317

Full text of H-statements: 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).

24/06/2015 EN (English) SDS Ref.: LACO1505005 1/1

#### 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)

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get immediate medical attention.

First-aid measures after skin contact : Wash with plenty of soap and water.

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 : IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

Symptoms/injuries : No significant signs or symptoms indicative of any health hazard are expected to occur.

#### 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 : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No particular fire or explosion hazard. 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 creating or spreading dust.

#### 6.1.1. For non-emergency personnel

Protective equipment : Where excessive dust may result, use approved respiratory protection equipment.

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Where excessive 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 : Avoid generating dust. Contain and collect as any solid.

Methods for cleaning up : Minimize generation of dust. On land, sweep or shovel into suitable containers.

#### 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

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

Incompatible products : Strong acids. Strong oxidizers. Strong bases. Storage area : Store in dry, cool, well-ventilated area.

24/06/2015 EN (English) SDS Ref.: LACO1505005 2/1

## 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)

#### 7.3. Specific end use(s)

Marking.

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

#### 8.1. Control parameters

LUMBER CRAYON 500 : White, Yellow, Red, Green, Blue, Orange, Purple, Fluorescent Orange, Fluorescent Yellow, Fluorescent Green					
ACGIH	Not applicable				
OSHA	Not applicable				
barium bis[2-[(2-hydroxynap	barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)				
ACGIH	Not applicable				
OSHA	Not applicable				
Iron oxide red (1309-37-1)					
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³			
ACGIH	Remark (ACGIH)	Pneumoconiosis			
OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m <sup>3</sup>			
Canada (Quebec)	VEMP (mg/m³)	5 mg/m³ (Fer, trioxyde de, fumées et poussières (exprimée en Fe)) 10 mg/m³ (Rouge)			
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)					
ACGIH	Not applicable				
OSHA	Not applicable				

#### 8.2. **Exposure controls**

Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Ensure good

ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : None under normal use.

Eye protection No special eye protection equipment recommended under normal conditions of use. In case of

dust production: protective goggles.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator

: No data available

equipped with particulate filtering cartridges.

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

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

Physical state : Solid

Appearance : A solid crayon-like marker.

Colour : Variable. Odour : wax like.

Odour threshold pН : No data available Relative evaporation rate (butyl acetate=1) : No data available : 60 - 85 °C Melting point Freezing point : No data available : No data available Boiling point

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 : > 1 Specific Gravity Solubility : insoluble in water.

24/06/2015 EN (English) SDS Ref.: LACO1505005 3/1

### 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)

Log Pow : < 1

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 : 0 %

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

None known.

exposure)

exposure)

Specific target organ toxicity (repeated

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified	
LUMBER CRAYON 500 : White, Yellow, Red, Green, Blue, Orange, Purple, Fluorescent Orange, Fluorescent Yellow, Fluorescent Green		
LD50 oral rat	> 5000 mg/kg (yellow)	
barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)		
LD50 oral rat	> 5000 mg/kg	
LC50 inhalation rat (mg/l)	4.13 mg/l/4h	
ATE CLP (vapours)	4.130 mg/l/4h	
ATE CLP (dust,mist)	4.130 mg/l/4h	
Iron oxide red (1309-37-1)		
LD50 oral rat	> 10000 mg/kg	
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)		
LD50 oral rat	> 15000 mg/kg	
LC50 inhalation rat (mg/l)	> 1580 mg/m³ 4 h	
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.	
Iron oxide red (1309-37-1)		
IARC group	3 - Not classifiable	
National Toxicology Program (NTP) Status	Not listed in carcinogenicity class	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single	: Not classified	

24/06/2015 EN (English) SDS Ref.: LACO1505005 4/1

: Not classified

## 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)

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms

Likely routes of exposure : Skin and eye contact;Inhalation

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)		
LC50 fish 1	50 mg/l 48 h	
EC50 Daphnia 1	> 3.8 mg/l 48 h	
Iron oxide red (1309-37-1)		
EC50 Daphnia 1	> 100 mg/l	
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)		
LC50 fish 1	> 500 mg/l 96 h	
EC50 Daphnia 1	> 110 mg/l 48 h	

#### 12.2. Persistence and degradability

barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)		
Persistence and degradability	Not readily biodegradable. Product persists.	
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	0 % 28 d	

#### 12.3. Bioaccumulative potential

LUMBER CRAYON 500 : White, Yellow, Red, Green, Blue, Orange, Purple, Fluorescent Orange, Fluorescent Yellow, Fluorescent Green		
Log Pow	<1	
barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)		
BCF fish 1	1.7 - 1.8 mg/l .3 mg/l conc. in envir/dose	
Log Pow	-0.67 - 1.07	
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)		
BCF fish 1	53 l/kg	
Log Pow	1.28	

#### 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 treatment methods : Dispose in a safe manner in accordance with local/national regulations.

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

## **SECTION 14: Transport information**

In accordance with DOT and TDG

Not considered a dangerous good for transport regulations

Proper Shipping Name (ADR) : Not applicable

## Transport by sea

No additional information available

#### Air transport

No additional information available

24/06/2015 EN (English) SDS Ref.: LACO1505005 5/1

#### 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)

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)

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

#### Iron oxide red (1309-37-1)

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

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

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

#### 15.2. International regulations

#### **CANADA**

#### barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)

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

#### Iron oxide red (1309-37-1)

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

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

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

#### **EU-Regulations**

#### barium bis[2-[(2-hydroxynaphthyl)azo]naphthalenesuphonate] (1103-38-4)

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

## Iron oxide red (1309-37-1)

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

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

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

#### **National regulations**

LUMBER CRAYON 500: White, Yellow, Red, Green, Blue, Orange, Purple, Fluorescent Orange, Fluorescent Yellow, Fluorescent Green

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

#### Iron oxide red (1309-37-1)

U.S. - Minnesota - Hazardous Substance List

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

## **SECTION 16: Other information**

Indication of changes

: Original 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.

24/06/2015 EN (English) SDS Ref.: LACO1505005 6/1

#### 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)

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.

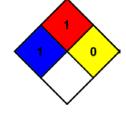
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

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:

At or it otation onto	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Skin Sens. 1	Sensitisation — Skin, category 1
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects
H412	Harmful 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

24/06/2015 EN (English) SDS Ref.: LACO1505005 7/1