Green Label Thinner

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: 10/19/2015

Version: 1.0

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

1.1. Product identifier
Product form: Substance
Trade name: Green Label Thinner

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Coatings and paints, thinners, paint removers

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification in accordance with the Globally Harmonized Standard
Skin Irrit. 2 H315
Eye Irrit. 2A H319
Carc. 2 H351
Repr. 1B H360
STOT SE 3 H335
STOT SE 3 H336
STOT RE 2 H373

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US):

![Hazard pictograms](image)

Signal word (GHS-US): Danger

Hazard statements (GHS-US):
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H360 - May damage fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US):
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe mist, vapours
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective gloves
P302+P352 - If on skin: Wash with plenty of soap, water
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P314 - Get medical advice/attention if you feel unwell
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P321 - Specific treatment (see First aid measures on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to an authorised waste collection point

2.3. Other hazards
No additional information available

SECTION 3: Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-bromopropane</td>
<td>(CAS No) 106-94-5</td>
<td>97 - 100</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Rep. 1B, H360</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2, H373</td>
</tr>
<tr>
<td>1,2-epoxybutane</td>
<td>(CAS No) 106-88-7</td>
<td>&lt; 0.7</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Dermal), H312</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carc. 2, H351</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

3.2. Mixture
Not applicable

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.
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. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries : May damage fertility or the unborn child.Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation : May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye irritation.
Symptoms/injuries after ingestion : Irritation of the respiratory tract and the other mucous membranes.

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
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heating may cause an explosion.

19/10/2015 EN (English) SDS Ref.: LACO1510023 2/8
Reactivity: No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions: Evacuate area. Use water spray or fog for cooling exposed containers.
Protection during firefighting: Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

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.

6.1.1. For non-emergency personnel

Protective equipment: Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Chemical goggles or safety glasses. Wear suitable gloves.
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

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up: Absorb and/or contain spill with inert material, then place in suitable container.

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

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. No open flames. No smoking.

Hygiene measures: Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed.
Incompatible materials: Heat sources.
Prohibitions on mixed storage: Incompatible materials.
Storage area: Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Coatings and paints, thinners, paint removers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Green Label Thinner</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

1,2-epoxybutane (106-88-7)

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

1-bromopropane (106-34-5)

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th>10 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACGIH Remark (ACGIH)</td>
<td>Liver &amp; embryo/fetal dam; A3</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>1-bromopropane (106-94-5)</th>
<th>Not applicable</th>
</tr>
</thead>
</table>

8.2. Exposure controls
Appropriate engineering controls: Ensure good ventilation of the work station.
Personal protective equipment: Avoid all unnecessary exposure.
Eye protection: Chemical goggles or safety glasses. Face shield.
Respiratory protection: Wear appropriate mask. In case of inadequate ventilation wear respiratory protection. NIOSH. Organic vapor cartridge
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: Clear.
Colour: Colorless. Yellow.
Odour: No data available
Odour threshold: No data available
pH: 6.8
Relative evaporation rate (butyl acetate=1): 4.7
Melting point: No data available
Freezing point: No data available
Boiling point: 70 °C
Flash point: > 93 °C
Auto-ignition temperature: 460 °C
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: 134 mm Hg @ 25 °C
Relative vapour density at 20 °C: No data available
Relative density: 1.33 - 1.35
Solubility: Water: 0.24 g/100ml
Log Pow: No data available
Log Kow: 2.1
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: Heating may cause an explosion.
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information
VOC content: 1.34 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known.

10.2. Chemical stability
Heating may cause an explosion. Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Thermal decomposition generates: Carbon oxides (CO, CO2). hydrogen bromide.
### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**
- Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 oral rat (mg/kg)</th>
<th>LC50 Inhalation rat (ppm)</th>
<th>ATE CLP (oral) (mg/kg bodyweight)</th>
<th>ATE CLP (gases) (ppmv/4h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Label Thinner</td>
<td>4260</td>
<td>14374</td>
<td>4260.000</td>
<td>14374.000</td>
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<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td></td>
<td></td>
<td>4260.000</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>1100</td>
<td></td>
<td>500.000</td>
<td></td>
</tr>
<tr>
<td>1,2-bromopropane (106-94-5)</td>
<td></td>
<td></td>
<td>1100.000</td>
<td></td>
</tr>
<tr>
<td>NOAEL (inhalation, rat, dust/mist/fume, 90 days)</td>
<td>1 mg/l/6h/day</td>
<td></td>
<td>1 mg/l/6h/day</td>
<td></td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
- Causes skin irritation.

**Serious eye damage/irritation**
- Causes serious eye irritation.

**Respiratory or skin sensitisation**
- Not classified

**Germ cell mutagenicity**
- Not classified

**Carcinogenicity**
- Suspected of causing cancer.

**1,2-epoxybutane (106-88-7)**
- IARC group: 2B - Possibly carcinogenic to humans

**Reproductive toxicity**
- May damage fertility or the unborn child.

**Specific target organ toxicity (single exposure)**
- May cause respiratory irritation. May cause drowsiness or dizziness.

**Specific target organ toxicity (repeated exposure)**
- May cause damage to organs through prolonged or repeated exposure.

**1-bromopropane (106-94-5)**
- Aspiration hazard: Not classified

**Potential adverse human health effects and symptoms**

**Symptoms/injuries after inhalation**
- May cause respiratory irritation. May cause drowsiness or dizziness.

**Symptoms/injuries after skin contact**
- Causes skin irritation.

**Symptoms/injuries after eye contact**
- Causes serious eye irritation.

**Symptoms/injuries after ingestion**
- Irritation of the respiratory tract and the other mucous membranes.

**Likely routes of exposure**
- Inhalation; Skin and eye contact

### SECTION 12: Ecological information

#### 12.1 Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 fish 1 (mg/l)</th>
<th>LC50 fish 1 (96 h)</th>
<th>EC50 Daphnia 1 (mg/l)</th>
<th>ErC50 (algae) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Label Thinner</td>
<td>67</td>
<td>Fathead minnow</td>
<td>70</td>
<td>50</td>
</tr>
<tr>
<td>1,2-epoxybutane (106-88-7)</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 100</td>
<td>96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>70</td>
<td>48 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>&gt; 500</td>
<td>72 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-bromopropane (106-94-5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>203</td>
<td>24 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>52.4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability
1.2-epoxybutane (106-88-7)
Persistence and degradability
Readily biodegradable.

1-bromopropane (106-94-5)
Persistence and degradability
Readily biodegradable.

12.3. Bioaccumulative potential
Green Label Thinner
Bioconcentration factor (BCF REACH) 23
Log Kow 2.1
Bioaccumulative potential Not expected to bioaccumulate.

1.2-epoxybutane (106-88-7)
Log Pow 0.86

1-bromopropane (106-94-5)
BCF fish 1 11.29 L/kg wwt
Log Pow 2.16

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.

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 hazard class(es) (ADR) :
Transport by sea
Transport hazard class(es) (IMDG) :
Air transport
Transport hazard class(es) (IATA) :

SECTION 15: Regulatory information
15.1. US Federal regulations
1.2-epoxybutane (106-88-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
RQ (Reportable quantity, section 304 of EPA's List of Lists) 100 lb

1-bromopropane (106-94-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
CANADA
1.2-epoxybutane (106-88-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

1-bromopropane (n-propyl bromide) (106-94-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations
1.2-epoxybutane (106-88-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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1-bromopropane (n-propyl bromide) (106-94-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations
Green Label Thinner
All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).
All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
All ingredients are listed in the Toxic Substances Control Act (TSCA).

15.3. US State regulations
1-bromopropane (106-94-5)
<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>Non-significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
1,2-epoxybutane (106-88-7)
| 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: Original Document.
Data sources:
- ACGIH (American Conference of Government Industrial Hygienists).

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:
- 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention 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:
- Acute Tox. 4 (Dermal) Acute toxicity (dermal), Category 4
- Acute Tox. 4 (Inhalation) Acute toxicity (inhal.), Category 4
- Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4
- Aquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3
- Carc. 2 Carcinogenicity, Category 2
- Eye Irrit. 2A Serious eye damage/eye irritation, Category 2A
- Flamm. Liq. 2 Flammable liquids, Category 2
- Rep. 1B Reproductive toxicity, Category 1B
### Green Label Thinner Safety Data Sheet

#### SDS Prepared by:
The Redstone Group, LLC  
6077 Frantz Rd.  
Suite 206  
Dublin, OH USA 43016  
T 614-923-7472  
www.redstonegrp.com

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.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

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**Skin Irrit. 2**  
Skin corrosion/irritation, Category 2

**STOT RE 2**  
Specific target organ toxicity — Repeated exposure, 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