

OMEGA 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, Revision 08/14/2018

Version: 1.0

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

1.1. Product identifier

Product form : Substance
 Trade name : OMEGA 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

OMEGA Engineering, INC.
 800 Connecticut Ave, Suite 5N01
 Norwalk, CT 06854 USA
 (800)-848-4286 or (203)-359-1660
 Fax: (203)-359-7700 info@omega.com

1.4. Emergency telephone number

Emergency number 24-hour emergency: ChemTel U.S. : 1-800-255-3924 International: +1-813-248-0585

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) :



GHS07

GHS08

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

OMEGA Green Label Thinner

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)

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
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

3.1. Substance

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

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.

OMEGA Green Label Thinner

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)

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO₂). hydrogen bromide.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heating may cause an explosion.
- 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/flamm 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 products : Moisture. Strong bases. Strong oxidizers. Alkali. Natural rubber.
- 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

| OMEGA Green Label Thinner | |
|---------------------------|----------------|
| ACGIH | Not applicable |
| OSHA | Not applicable |

OMEGA Green Label Thinner

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
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| 1,2-epoxybutane (106-88-7) | | |
|----------------------------|-----------------|------------------------------|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |
| 1-bromopropane (106-94-5) | | |
| ACGIH | ACGIH TWA (ppm) | 10 ppm |
| ACGIH | Remark (ACGIH) | Liver & embryo/fetal dam; A3 |
| OSHA | Not applicable | |

8.2. Exposure controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Hand protection | : Wear suitable gloves. Viton. Do not use : rubber, Natural rubber. |
| 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.

OMEGA Green Label Thinner

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)

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Alkali. Strong bases. Strong oxidizers. reactive metals. Natural rubber.

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

| OMEGA Green Label Thinner | |
|---------------------------|---------------------------|
| LD50 oral rat | 4260 mg/kg |
| LC50 inhalation rat (ppm) | 14374 ppm/4h |
| ATE CLP (oral) | 4260.000 mg/kg bodyweight |
| ATE CLP (gases) | 14374.000 ppmv/4h |

| 1,2-epoxybutane (106-88-7) | |
|----------------------------|---------------------------|
| LD50 oral rat | 1100 µl/kg |
| ATE CLP (oral) | 500.000 mg/kg bodyweight |
| ATE CLP (dermal) | 1100.000 mg/kg bodyweight |
| ATE CLP (gases) | 4500.000 ppmv/4h |
| ATE CLP (vapours) | 11.000 mg/l/4h |
| ATE CLP (dust,mist) | 1.500 mg/l/4h |

| 1-bromopropane (106-94-5) | |
|---------------------------|-------------------|
| LD50 oral rat | > 2000 |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (ppm) | 14374 ppm/4h |
| ATE CLP (gases) | 14374.000 ppmv/4h |

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) | |
|--|---------------|
| NOAEL (inhalation, rat, dust/mist/fume, 90 days) | 1 mg/l/6h/day |

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

| OMEGA Green Label Thinner | |
|---------------------------|-----------------------------|
| LC50 fish 1 | 67 mg/l 96 h Fathead minnow |

| 1,2-epoxybutane (106-88-7) | |
|----------------------------|-----------------|
| LC50 fish 1 | > 100 mg/l 96 h |

OMEGA Green Label Thinner

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)

| 1,2-epoxybutane (106-88-7) | |
|----------------------------|-----------------|
| EC50 Daphnia 1 | 70 mg/l 48 h |
| ErC50 (algae) | > 500 mg/l 72 h |

| 1-bromopropane (106-94-5) | |
|---------------------------|---------------|
| EC50 Daphnia 1 | 203 mg/l 24 h |
| ErC50 (algae) | 52.4 mg/l |

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

| OMEGA 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 ww |
| 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. | |

OMEGA Green Label Thinner

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)

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)

1-bromopropane (n-propyl bromide) (106-94-5)

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

National regulations

OMEGA 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)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
|---|---|---|---|-----------------------------------|
| No | Yes | Yes | Yes | |

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).

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

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>.

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

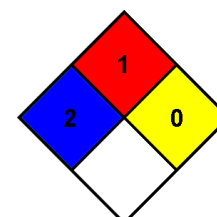
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

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

OMEGA Green Label Thinner

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)

| | |
|---------------------------|--|
| 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 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Repr. 1B | Reproductive toxicity, Category 1B |
| 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 |
| H225 | Highly flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| 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 |
| H412 | Harmful to aquatic life with long lasting effects |

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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