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Revision Date: 09/23/2019



1. Identification

Product identifier: CRL848 PLASTIC CLEANER Version: 1.0

Other means of identification

SDS number: RE1000000363

Recommended restrictions

Product Use: Cleaner

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: C.R. Laurence Co., Inc. Address: 2503 E. Vernon Avenue

Los Angeles, CA 90058

Telephone: 1-800-421-6144

Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Environmental Hazards

Acute hazards to the aquatic

environment

Chronic hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.

Harmful to aquatic life with long lasting effects.

Category 3

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid release to the

environment.

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Storage: Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|---|------------|-------------------------|
| Ethanol | 64-17-5 | 1 - <5% |
| Propane | 74-98-6 | 1 - <5% |
| Butane | 106-97-8 | 1 - <5% |
| Ethanol, 2-butoxy- | 111-76-2 | 1 - <5% |
| Ethanol, 2-(2-butoxyethoxy)- | 112-34-5 | 1 - <5% |
| Sodium nitrite, Nitrous acid, sodium salt (1:1) | 7632-00-0 | 0.1 - <1% |
| Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl- | 556-67-2 | 0.01 - <1% |

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/attention.

Eye contact: Any material that contacts the eye should be washed out immediately with

water. If easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a

protected location. Move containers from fire area if you can do so without

risk.

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Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash

back.

Special protective equipment and precautions for firefighters

Special firefighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and

emergency procedures:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep

upwind.

Methods and material for containment and cleaning

up:

Stop the flow of material, if this is without risk. Absorb with sand or other

inert absorbent.

Notification Procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in

immediate area). Stop leak if you can do so without risk.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe

to do so.

7. Handling and storage

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Do not spray on an open flame or other ignition

source. Do not pierce or burn, even after use.

Conditions for safe storage,

including any incompatibilities: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Aerosol Level 1

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Туре | Exposure Limit Values | Source |
|-------------------|------|-----------------------|--|
| Ethanol | REL | 1,000 ppm 1,900 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | PEL | 1,000 ppm 1,900 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 1,000 ppm 1,900 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | STEL | 1,000 ppm | US. ACGIH Threshold Limit Values (2009) |
| Propane | REL | 1,000 ppm 1,800 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |



| | 1 | | | |
|---|------|-----------|---|--|
| | PEL | 1,000 ppm | 1,800 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 1,000 ppm | 1,800 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Butane | REL | 800 ppm | 1,900 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | STEL | 1,000 ppm | | US. ACGIH Threshold Limit Values (03 2018) |
| | TWA | 800 ppm | 1,900 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| Ethanol, 2-butoxy- | TWA | 20 ppm | | US. ACGIH Threshold Limit Values (2008) |
| | TWA | 25 ppm | 120 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | REL | 5 ppm | 24 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | PEL | 50 ppm | 240 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Ethanol, 2-(2-butoxyethoxy) Inhalable fraction and vapor. | TWA | 10 ppm | | US. ACGIH Threshold Limit Values (03 2013) |
| 2-Propanol, 2-methyl- | STEL | 150 ppm | 450 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | 100 ppm | 300 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | PEL | 100 ppm | 300 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 100 ppm | | US. ACGIH Threshold Limit Values (2008) |
| | STEL | 150 ppm | 450 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | REL | 100 ppm | 300 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| Silica | REL | | 6 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2005) |
| | TWA | | 6 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | | 20 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| | TWA | | 0.8 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| | | | | |

Biological Limit Values

| • | Biological Ellilit Values | | | | | |
|---|--|--------------------------------|---------------------|--|--|--|
| | Chemical Identity | Exposure Limit Values | Source | | | |
| | Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling | 200 mg/g (Creatinine in urine) | ACGIH BEL (03 2013) | | | |
| | time: End of shift) | | | | | |

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required. Personal protection

equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection: Wear goggles/face shield.

Skin Protection

Hand Protection: No data available.

Other: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: When using do not smoke. Observe good industrial hygiene practices.

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9. Physical and chemical properties

Appearance

Physical state: liquid

Form: Spray Aerosol
Color: No data available.
Odor: No data available.
Odor threshold: No data available.
pH: No data available.
Melting point/freezing point: No data available.

Initial boiling point and boiling range: 100 °C
Flash Point: -104.44 °C
Evaporation rate: No data available.

Flammability (solid, gas):

No data available.

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

No data available.

Vapor pressure:

No data available.

Vapor density:No data available.Density:No data available.Relative density:No data available.

Solubility(ies)

Solubility in water:

Solubility (other):

No data available.

No data available.

Partition coefficient (n-octanol/water):

No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition

No data available.

Products:

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

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Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 46,520.43 mg/kg

Dermal

Product: ATEmix: 46,079.45 mg/kg

Inhalation

Product: ATEmix: 1,381.69 mg/l

ATEmix: 345.42 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Ethanol NOAEL (Rat(Male), Oral, 7 - 14 Weeks): 10 %(m) Oral Experimental result,

Key study

Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

Butane LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

Ethanol, 2-butoxy- NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal

Experimental result, Key study

NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key

study

NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation

Experimental result, Key study

Ethanol, 2-(2- NOAEL (Rat(Female, Male), Oral, 90 d): 250 mg/kg Oral Experimental

butoxyethoxy)- result, Key study

NOAEL (Rat(Female, Male), Dermal, 13 Weeks): > 2,000 mg/kg Dermal

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, 90 - 120 d): 14 ppm(m) Inhalation

Experimental result, Key study

Sodium nitrite, Nitrous NOAEL (Rat(Male), Oral, 2 yr): 10 mg/kg Oral Experimental result,

acid, sodium salt (1:1) Supporting study

LOAEL (Rat(Male), Oral, 14 Weeks): 115 mg/kg Oral Experimental result,

Weight of Evidence study

Cyclotetrasiloxane, NOAEL (Rat(Female, Male), Inhalation, 13 Weeks): 480 ppm(m) Inhalation

2,2,4,4,6,6,8,8- Experimental result, Supporting study

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octamethyl-

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Ethanol in vivo (Rabbit): Not irritant Experimental result, Key study

Ethanol, 2-butoxy- in vivo (Rabbit): Irritating Experimental result, Key study

Ethanol, 2-(2-butoxyethoxy)-

in vivo (Rabbit): Not irritant Experimental result, Supporting study

Sodium nitrite, Nitrous acid, sodium salt (1:1)

n nitrite, Nitrous in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study

Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-

in vivo (Rabbit): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Ethanol Rabbit, 1 - 24 hrs: Not irritating

Ethanol, 2-butoxy- Rabbit, 24 - 72 hrs: Irritating

Ethanol, 2-(2- Rabbit, 24 - 72 hrs: Highly irritating

butoxyethoxy)-

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Ethanol Skin sensitization:, in vivo (Guinea pig): Non sensitising Ethanol, 2-butoxy- Skin sensitization:, in vivo (Guinea pig): Non sensitising Ethanol, 2-(2- Skin sensitization:, in vivo (Guinea pig): Non sensitising

butoxyethoxy)-

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

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Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s):

Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Ethanol LC 50 (Pimephales promelas, 96 h): 15.3 g/l Experimental result, Key study

Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Ethanol, 2-butoxy- LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key

study

Ethanol, 2-(2- LC 50 (Lepomis macrochirus, 96 h): 1,300 mg/l Experimental result, Key

butoxyethoxy)- stud

LC 50 (Pimephales promelas, 96 h): 2,400 mg/l Experimental result,

Supporting study

Sodium nitrite, Nitrous LC 50 (Oncorhynchus mykiss, 96 h): 0.54 - 26.3 mg/l Experimental result,

acid, sodium salt (1:1) Key study

Cyclotetrasiloxane, NOAEL (Oncorhynchus mykiss, 14 d): 6.8 µg/l Experimental result,

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2,2,4,4,6,6,8,8-Supporting study

octamethyl-LC 50 (Oncorhynchus mykiss, 14 d): 10 µg/l Experimental result, Key study

LC 50 (Oncorhynchus mykiss, 96 h): > 22 µg/l Experimental result, Key

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Ethanol LC 50 (Ceriodaphnia dubia, 48 h): 5,012 mg/l Experimental result, Key study

Butane LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Ethanol, 2-butoxy-EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study

Ethanol, 2-(2-LC 50 (Daphnia magna, 48 h): +/- 1,743 mg/l QSAR QSAR, Supporting

butoxyethoxy)study

Sodium nitrite, Nitrous acid, sodium salt (1:1)

EC 50 (Daphnia magna, 48 h): 15.4 mg/l Experimental result, Key study

Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-

octamethyl-

EC 50 (Daphnia magna, 24 h): 25.2 mg/l Experimental result, Supporting

study

Chronic hazards to the aquatic environment:

Fish

Product: NOEC : Estimated < 1 mg/l

Aquatic Invertebrates

No data available. Product:

Specified substance(s):

Ethanol LC 50 (Daphnia magna): 454 mg/l Experimental result, Key study

NOAEL (Daphnia magna): 9.6 mg/l Experimental result, Key study

Ethanol, 2-butoxy-EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study

EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study

Sodium nitrite, Nitrous

NOAEL (Penaeus monodon): 2 mg/l Experimental result, Key study acid, sodium salt (1:1) EC 50 (Penaeus monodon): 114.9 mg/l Experimental result, Key study

LC 50 (Penaeus monodon): > 95.6 mg/l Experimental result, Key study

Cyclotetrasiloxane, 2,2,4,4,6,6,8,8octamethylNOAEL (Daphnia magna): 7.9 µg/l Experimental result, Key study LOAEL (Daphnia magna): 15 µg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: 60 % (28 d) Readily biodegradable

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

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Product: No data available.

Specified substance(s):

Ethanol Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic sediment Read-

across from supporting substance (structural analogue or surrogate).

Supporting study

Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-

Pimephales promelas, Bioconcentration Factor (BCF): 12,400 Aquatic

sediment Experimental result, Key study

octamethyl-

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Ethanol No data available.
Propane No data available.
Butane No data available.
Ethanol, 2-butoxy- No data available.
Ethanol, 2-(2- No data available.

butoxyethoxy)-

Sodium nitrite, Nitrous acid, No data available.

sodium salt (1:1)

Cyclotetrasiloxane, No data available.

2,2,4,4,6,6,8,8-octamethyl-

Other adverse effects: Harmful to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2.1
Label(s): Packing Group: II
Marine Pollutant: No

Environmental Hazards: No Marine Pollutant No

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Special precautions for user: Not regulated.

IMDG

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2 Label(s): – EmS No.:

Packing Group: -

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

IATA

UN Number: UN 1950

Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

Class: 2.1
Label(s):
Packing Group: -

Environmental Hazards: No Marine Pollutant No

Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical IdentityReportable quantityEthanollbs. 100Propanelbs. 100Butanelbs. 100Sodium nitrite, Nitrouslbs. 100

acid, sodium salt (1:1)

2-Propanol, 2-methyl- lbs. 100 1,3-Benzodioxole, 5-(2- lbs. 100

propen-1-yl)-

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

Flammable aerosol

SARA 302 Extremely Hazardous Substance

Reportable

Chemical Identity quantity

Amides, coco, N,N-bis(hydroxyethyl)

Threshold Planning Quantity

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SARA 304 Emergency Release Notification

Chemical IdentityReportable quantityEthanollbs. 100Propanelbs. 100Butanelbs. 100

Ethanol, 2-butoxy-

Ethanol, 2-(2-

butoxyethoxy)-

Sodium nitrite, Nitrous Ibs. 100

acid, sodium salt (1:1)

2-Propanol, 2-methyl- lbs. 100

Amides, coco, N,N-

bis(hydroxyethyl)

1,3-Benzodioxole, 5-(2- lbs. 100

propen-1-yl)-

SARA 311/312 Hazardous Chemical

| Chemical Identity | Threshold Planning Quantity |
|-----------------------------|-----------------------------|
| Ethanol | 10000 lbs |
| Propane | 10000 lbs |
| Butane | 10000 lbs |
| Ethanol, 2-butoxy- | 10000 lbs |
| Ethanol, 2-(2- | 10000 lbs |
| butoxyethoxy)- | |
| Sodium nitrite, Nitrous | 10000 lbs |
| acid, sodium salt (1:1) | |
| Cyclotetrasiloxane, | 10000 lbs |
| 2,2,4,4,6,6,8,8-octamethyl- | |
| 2-Propanol, 2-methyl- | 10000 lbs |
| Silica | 10000 lbs |

SARA 313 (TRI Reporting)

| , . | Reporting threshold for | Reporting threshold for manufacturing and |
|--------------------------|-------------------------|---|
| Chemical Identity | other users | processing |
| Ethanol, 2-butoxy- | N230 lbs | N230 lbs. |
| Ethanol, 2-(2- | N230 lbs | N230 lbs. |
| butoxyethoxy)- | | |

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Amides, coco, N,N- Carcinogenic. 06 2015 bis(hydroxyethyl)

1,3-Benzodioxole, 5-(2- Carcinogenic. 05 2011

propen-1-yl)-

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Ethanol Propane Butane

Ethanol, 2-butoxy-

Ethanol, 2-(2-butoxyethoxy)-

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US. Massachusetts RTK - Substance List

Chemical Identity

1,3-Benzodioxole, 5-(2-propen-1-yl)-

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Ethanol

Propane

Butane

Ethanol, 2-butoxy-

Ethanol, 2-(2-butoxyethoxy)-

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

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Inventory Status:

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List: Not in compliance with the inventory.

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Japan (ENCS) List: Not in compliance with the inventory.

China Inv. Existing Chemical Substances: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Philippines PICCS: Not in compliance with the inventory.

US TSCA Inventory: Not in compliance with the inventory.

New Zealand Inventory of Chemicals:

On or in compliance with the inventory

Japan ISHL Listing: Not in compliance with the inventory.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Mexico INSQ: Not in compliance with the inventory.

Ontario Inventory: Not in compliance with the inventory.

Taiwan Chemical Substance Inventory:

On or in compliance with the inventory

16.Other information, including date of preparation or last revision

Issue Date: 09/23/2019

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.