

# SAFETY DATA SHEET

# criaurence.com

## 1. Identification

**CRL848** Catalog number 1000000363 **Product number** 

**CRL AEROSOL PLASTIC CLEANER** Product identifier

Company information C. R. LAURENCE CO., INC.

2503 E. VERNON AVENUE

LOS ANGELES, CA 90058 United States

Company phone General Assistance 800-421-6144

CHEMTREC: 1-800-424-9300 (24 hours) **Emergency number** 

01 Version #

**CLEANER** Recommended use Recommended restrictions None known.

## 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

**Health hazards** Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Extremely flammable aerosol.

Precautionary statement

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open Prevention

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

If exposed or concerned: Get medical advice/attention. Response

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Storage Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

# **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Ethyl Alcohol		64-17-5	2.5 - 10
2-Butoxyethanol		111-76-2	1 - 2.5
Butane		106-97-8	1 - 2.5
Diethylene Glycol Monobutyl Ether		112-34-5	1 - 2.5
Propane		74-98-6	1 - 2.5
Sodium Nitrite		7632-00-0	0.1 - 1
Other components below reportable lev	rels		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Product #: 1000000363 Version #: 01 Issue date: 09-15-2015



#### 4. First-aid measures

**Inhalation** If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

**In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.** 

**Most important** Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and delayed

Indication of immediate Provide general supportive measures and treat symptomatically. medical attention and special

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

## 5. Fire-fighting measures

treatment needed

Suitable extinguishing media Water fog. Carbon dioxide (CO<sub>2</sub>). Dry chemical powder. Alcohol resistant foam.

**Unsuitable extinguishing** Do not use water jet as an extinguisher, as this will spread the fire. **media** 

**Specific hazards arising from** Contents under pressure. Pressurized container may explode when exposed to heat or flame. **the chemical** 

**Special protective equipment** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting

Move containers from fire area if you can do so without risk. Containers should be cooled with

equipment/instructions

water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose
holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

breathe fumes.

General fire hazards Extremely flammable aerosol.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Scoop up used absorbent into drums or other appropriate container. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in original tightly closed container. Refrigeration recommended. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

Page 2 of 10



# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limi	ts for Air Contaminants (29 CFR 1910.1000)
Components	Typo

Components		Туре	•	V	alue	
2-Butoxyethanol		PEL		24	40 mg/m <sup>3</sup>	
(CAS 111-76-2)						
				50	0 ppm	
Ethyl Alcohol (CAS 64	-17-5)	PEL		19	900 mg/m <sup>3</sup>	
, ,	,				000 ppm	
Propane (CAS 74-98-6	3)	PEL			800 mg/m <sup>3</sup>	
(3.15)	-,				000 ppm	
US. ACGIH Threshold	d Limit Values				осо рр	
Components		Туре		V	alue	Form
2-Butoxyethanol		TWA		20	0 ppm	
(CAS 111-76-2)						
Butane (CAS 106-97-8	3)	STEL			000 ppm	
Diethylene Glycol		TWA		10	0 ppm	Inhalable fraction and
Monobutyl Ether						vapor.
(CAS 112-34-5)						
Ethyl Alcohol (CAS 64	·	STEL		10	000 ppm	
US. NIOSH: Pocket G	Buide to Chemical I					
Components		Type		V	alue	
2-Butoxyethanol		TWA		24	4 mg/m³	
(CAS 111-76-2)						
				5	ppm	
Butane (CAS 106-97-8	3)	TWA		19	900 mg/m <sup>3</sup>	
				80	00 ppm	
Ethyl Alcohol (CAS 64	-17-5)	TWA		19	900 mg/m³	
, , , , , , , , , , , , , , , , , , , ,	-,				000 ppm	
Propane (CAS 74-98-6	3)	TWA			800 mg/m <sup>3</sup>	
Topano (crio i i co i	٥,				000 ppm	
Biological limit value	es				<b>pp</b>	
<b>ACGIH Biological Ex</b>	posure Indices					
Components	Value		Determinant	Specimen	Sampling Ti	me
2-Butoxyethanol	200 mg/g		Butoxyacetic	Creatinine in	*	
(CAS 111-76-2)			acid (BAA),	urine		

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

with hydrolysis

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

US - Tennesse OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear appropriate chemical resistant gloves.



Skin protection

Other Wear suitable protective clothing.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene When using do not smoke. Always observe good personal hygiene measures, such as washing considerations

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** Clear. Gas. Physical state Aerosol. **Form** Color Light yellow. Floral Odor

Not available. Odor threshold

8.6 - 10.6 estimated

Not available. Melting point/freezing point

Initial boiling point and boiling

range

212°F (100°C) estimated

-156.0°F (-104.4°C) PROPELLANT estimated Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

Not available.

Not available.

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

80 +-10 psi @70F estimated Vapor pressure

Vapor density Not available. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Viscosity Not available.

Other information

Specific gravity 0.944 @70F estimated

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.



## 11. Toxicological information

Information on likely routes of exposure

**Ingestion** Expected to be a low ingestion hazard.

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

**Eye contact**Direct contact with eyes may cause temporary irritation. **Symptoms related to the**Direct contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity May be harmful if swallowed. May be harmful if inhaled. May be harmful in contact with skin.

Components Species Test Results

2-Butoxvethanol	(CAS 111-76-2)
<u> 2-Dulux velijanju i</u>	(0/10   11-10-21

Dermal

LD50 Guinea pig 230 ml/kg, 24 Hours

7.3 ml/kg, 4 Days

Rabbit 450 ml/kg, 24 Hours

435 mg/kg, 24 Hours

0.63 ml/kg

Rat > 2000 mg/kg, 24 Hours

Inhalation

LC50 Rabbit 400 ppm, 7 Hours
Rat 450 ppm, 4 Hours

Oral

 LD100
 Rabbit
 695 mg/kg

 LD50
 Dog
 > 695 mg/kg

 Guinea pig
 1200 mg/kg

Rat 530 - 2800 mg/kg

Butane (CAS 106-97-8)

Acute

Inhalation

LC50 Mouse 1237 mg/l, 120 Minutes

52%, 120 Minutes

Rat 1355 mg/l

Diethylene Glycol Monobutyl Ether (CAS 112-34-5)

Acute

Dermal

LD50 Rabbit 2764 mg/kg, 24 Hours

Rat 2021 mg/kg

Inhalation

LC50 Rat 74 mg/l/4h

Oral

 LD100
 Rabbit
 4000 mg/kg

 LD50
 Guinea pig
 2000 mg/kg

 Maura
 3410 mg/kg

Mouse 2410 mg/kg

Rabbit 2500 - 3000 mg/kg

Rat 3306 mg/kg



Components	Species	Test Results
Ethyl Alcohol (CAS 64-17-5)		
Acute		
Inhalation		
LC50	Cat	85.41 mg/l, 4.5 Hours
		43.68 mg/l, 6 Hours
	Mouse	> 60000 ppm
		79.43 mg/l, 134 Minutes
	Rat	> 115.9 mg/l, 4 Hours
		51.3 mg/l, 6 Hours
Oral		
LD50	Monkey	6000 mg/kg
	Mouse	10500 ml/kg
	Rat	1187 - 2769 mg/kg
		7800 ml/kg
Propane (CAS 74-98-6)		ŭ
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52%, 120 Minutes
	Rat	1355 mg/l
		658 mg/l/4h
Sodium Nitrite (CAS 7632-00-0)		<b>3</b>
Acute		
Oral		
LD50	Rat	180 mg/kg
*= "		
	be based on additional component data	
Skin corrosion/irritation	Prolonged skin contact may cause te	•
Serious eye damage/eye irritation	Direct contact with eyes may cause to	emporary irritation. Irritating to eyes.
Respiratory or skin sensitization		
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause	
Germ cell mutagenicity	No data available to indicate product mutagenic or genotoxic.	or any components present at greater than 0.1% are
Carcinogenicity	Possible cancer hazard - may cause	cancer based on animal data.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
2-Butoxyethanol (CAS 1 OSHA Specifically Regulat	11-76-2) 3 Not ed Substances (29 CFR 1910.1001-10	classifiable as to carcinogenicity to humans.  50)
Not listed.		
Reproductive toxicity	This product is not expected to cause	e reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not likely, due to the form of the prod	luct.
=	May be harmful if absorbed through skin.	

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.



# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

	Species	Test Results
111-76-2)		
LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
obutyl Ether (CAS	112-34-5)	
EC50	Daphnia	2803 mg/L, 48 Hours
LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
	Fish	1304 mg/L, 96 Hours
-17-5)		
EC50	Water flea (Daphnia magna)	7700 - 11200 mg/l, 48 hours
LC50	Fathead minnow (Pimephales promelas)	> 100.1 mg/l, 96 hours
632-00-0)		
EC50	Greasyback shrimp (Metapenaeus ensis)	16.14 - 26.61 mg/l, 48 hours
LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.15 - 0.25 mg/l, 96 hours
	LC50 obutyl Ether (CAS	LC50 Inland silverside (Menidia beryllina) obutyl Ether (CAS 112-34-5)  EC50 Daphnia LC50 Bluegill (Lepomis macrochirus) Fish  17-5)  EC50 Water flea (Daphnia magna) LC50 Fathead minnow (Pimephales promelas) 32-00-0)  EC50 Greasyback shrimp (Metapenaeus ensis) LC50 Rainbow trout,donaldson trout

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability 
No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol	0.83
Butane	2.89
Diethylene Glycol Monobutyl Ether	0.56
Ethyl Alcohol	-0.31
Propane	2.36

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

#### 14. Transport information

DOT

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, flammable, (each not exceeding 1 L capacity)

Class

2.1



Subsidiary risk 2.1 Label(s)

Not applicable. Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

**Special provisions** N82 Packaging exceptions 306 Packaging non bulk None Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

#### **IATA**

UN1950 **UN number** 

**UN** proper shipping name Aerosols, flammable

Transport hazard class(es)

2.1 Class Subsidiary risk Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed. **Packaging Exceptions** LTD QTY

**IMDG** 

UN1950 **UN number** UN proper shipping name **AEROSOLS** 

Transport hazard class(es)

2.1 Class Subsidiary risk Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No. F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

**Packaging Exceptions** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

LTD QTY Not applicable.





#### IATA; IMDG



# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium Nitrite (CAS 7632-00-0)

Listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

# SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Sodium Nitrite	7632-00-0	0.1 - 1

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

Propane (CAS 74-98-6)

Sodium Nitrite (CAS 7632-00-0)

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

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

Propane (CAS 74-98-6)

Sodium Nitrite (CAS 7632-00-0)



## US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)

Sodium Nitrite (CAS 7632-00-0)

#### **US. Rhode Island RTK**

Butane (CAS 106-97-8) Propane (CAS 74-98-6) Sodium Nitrite (CAS 7632-00-0)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

**Issue date** 09-15-2015

Version # 01

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.