MARCH 2024



1. IDENTIFICATION

Product identifier: INDUSTRIAL STRENGTH HI-SHEEN GLASS CLEANER

No data available. Other means of identification

SDS Number: RE1000000970

Recommended restrictions

Recommended use: Cleaner Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information Manufacturer

CRL CAT. No. 3371100

Company Name: C.R. Laurence Co., Inc.

2503 E. Vernon Avenue

Address: Los Angeles, CA 90058

US

Telephone: 1-800-421-6144

Emergency 1-866-836-8855 telephone number

2. HAZARD(S) IDENTIFICATION

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.

Precautionary Statements

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

sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

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

50°C/122° F.

Hazard(s) not otherwise

None. classified (HNOC):



3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Ethanol, 2-butoxy-	111-76-2	1 - <5%
Butane	106-97-8	1 - <5%
Ethanol	64-17-5	1 - <5%
Propane	74-98-6	O.1-<1%

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

The exact concentration has been withheld as a trade secret.

4. FIRST-AID MEASURES

Description of necessary first-aid measures

Inhalation: Move to fresh air.

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

medical advice/attention.

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

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

Get medical advice/attention.

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

Firefighters must use standard protective equipment including flame Personal Protection for retardant coat, helmet with face shield, gloves, rubber boots, and in First aid Responders:

enclosed spaces, SCBA

Most important symptoms/effects, acute and delayed

No data available. Symptoms: No data available. Hazards:

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. FIRE-FIGHTING MEASURES

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

a protected location. Move containers from fire area if you can do so

without risk.

Suitable (and unsuitable) extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Suitable extinguishing media:

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

Specific hazards arising from the

chemical:



5. FIRE-FIGHTING MEASURES (CONT.)

Special protective equipment and precautions for firefighters

Special fire fighting 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.

Accidental release measures:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

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.

Environmental Precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental

manager must be informed of all major spillages.

7. HANDLING AND STORAGE

Handling

Technical measures (e.g. Local and

general ventilation):

No data available.

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

Safe handling advice:

Safe storage conditions:

Storage Temperature:

ignition, sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after

use.

Contact avoidance measures: No data available.

Storage

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

No data available.

Safe packaging materials: No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits



8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT.)

Chemical Identity	Туре	Exposure	Limit Values	Source
Ethanol, 2-butoxy-	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	5 ppm	24 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	50 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	25 ppm	120 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Ethanol	REL	1,000 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Ammonium hydroxide ((NH4)(OH))	STEL	35 ppm	27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	35 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended
	PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
2-Propanol, 2-methyl-	PEL	100 ppm	300 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	150 ppm	450 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	300 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	150 ppm	450 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	300 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-	REL		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	2 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA		2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	3 ppm		US. ACGIH Threshold Limit Values, as amended
	PEL		2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
2-Pentanone, 4-hy- droxy-4-methyl-	REL	50 ppm	240 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	50 ppm	240 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	50 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	50 ppm		US. ACGIH Threshold Limit Values, as amended
	1	1		1

MARCH 2024



8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT.)

Biolorical Limit Values

Chemical Identity	Exposure Limit Values	Source
Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sam ing time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear goggles/face shield.

Skin Protection

Hand Protection: No data available.

Skin and Body Protection: 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.

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.

Freezing point: No data available.

Boiling Point: No data available.

Flash Point: Estimated -104 °C **Evaporation Rate:** No data available.

Flammability (solid, gas): No data available.

Explosive limit - upper (%): Estimated 9.5 %(V)

Explosive limit - lower(%): Estimated 1.9 %(V)

Vapor pressure: 3,447 - 4,826 hPa (20 °C)

Vapor density (air=1): No data available.

Density: No data available.



9. PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

Relative density:

Solubility in Water: No data available. Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available. **Self Ignition Temperature:** No data available. **Decomposition Temperature:** No data available. No data available. Kinematic viscosity: Dynamic viscosity: No data available. **Explosive properties:** No data available. No data available. Oxidizing properties:

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 Products: No data available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:No data available.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

Inhalation Product:

Acute toxicity (list all possible routes of exposure)

Oral Product:ATEmix: 64,285.71 mg/kgDermal Product:ATEmix: 39,027.98 mg/kg

ATEmix: 405.01 mg/I Vapour

ATEmix: 110.46 mg/I Dusts, mists and fumes

MARCH 2024



11. TOXICOLOGICAL INFORMATION (CONT.)

Repeated dose toxicity Product: No data available.

Components:

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

Experimental result, Key study

Ethanol, 2-butoxy- NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result,

Key study

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

Experimental result, Key study

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

Experimental result, Key study

Butane

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

Experimental result, Key study

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

Key study

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

Experimental result, Key study

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

Experimental result, Key study

Skin Corrosion/Irritation Product No data available.

Components:

Ethanol, 2-butoxy in vivo (Rabbit): Irritating

Ethanol in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

Product:

No data available.

Components:

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

Ethanol Rabbit, 1 - 24 hrs: Not irritating

Respiratory or Skin Sensitization

Product:

No data available.

Components:

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

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

MARCH 2024



11. TOXICOLOGICAL INFORMATION (CONT.)

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), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product:
In vivo Product:
No data available.
No data available.
Reproductive toxicity Product:
No data available.

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.

Components:

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

study

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

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

study

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

Aquatic Invertebrates Product No data available.

Components:

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

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

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

study

MARCH 2024



12. ECOLOGICAL INFORMATION (CONT.)

Chronic hazards to the aquatic environment:

Fish Product: No data available.

Components:

Ethanol, 2-butoxy- NOAEL (Dania rerio): > 100 mg/l Experimental result, Key study

Ethanol NOAEL (Oryzias latipes): 7,900 mg/l Read-across from supporting

substance (structural analogue or surrogate), Supporting study

Aquatic Invertebrates Product No data available.

Components:

Ethanol, 2-butoxy
EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study

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

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

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

Toxicity to Aquatic Plants Product: No data available.

Persistence and Degradability

Biodegradation Product: No data available.

Components:

Ethanol, 2-butoxy- 90.4 % Detected in water. Experimental result, Key study

Butane 100 % (385.5 h) Detected in water. Experimental result, Key study

Ethanol 95 % Detected in water. Experimental result, Key study

Propane 100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

BOD/COD Ratio Product: No data available.

Bioaccumulative potential Bioconcentration Factor (BCF)

Product: No data available.

Components:

Fthanol

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

Read across from supporting substance (structural analogue or

surrogate), Supporting study

Partition Coefficient n-octanol / water (log Kow)

Product:No data available.Mobility in soil:No data available.

Components:

Ethanol, 2-butoxy No data available.

Butane No data available.

Ethanol No data available.

Propane No data available.

Other adverse effects: No data available.

MARCH 2024



13. DISPOSAL CONSIDERATIONS

Disposal instructions: Wash before disposal. Dispose to controlled facilities.

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):

Ems No.:

Packing Group:

Special precautions for user: None known.

IATA

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

Class: 2.1

Label(s):

Packing Group:

Special precautions for user: None known.

Other information

Passenger and cargo aircraft: Allowed. 203
Cargo aircraft only: Allowed. 203

IMDG

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2.1

Label(s):

Ems No.: F-D, S-U

Packing Group:

Special precautions for user: None known.

The classification shown in this section may be eligible for use of an exception, such as "Limited Quantity", per the dangerous goods regulations. The shipper of this product should consult the applicable mode's regulation for the UN number displayed above to determine if any exceptions are available and may be utilized, at the shipper's discretion.

MARCH 2024



15. REGULATORY INFORMATION

US Federal Regulations

Restrictions on use: Not known.

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

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

GLYCOL ETHERS

UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY

RCRA HAZARDOUS WASTE NO. 0001

AMMONIUM HYDROXIDE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Chemical Identity % by weight

Ethanol, 2-butoxy- 1.0%

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.

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

Chemical Identity

Ethanol, 2-butoxy-

Butane

Ethanol



15. REGULATORY INFORMATION (CONT.)

US. Massachusetts RTK - Substance List

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

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Ethanol, 2-butoxy-

Butane

Ethanol

US. Rhode Island RTK

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

International regulations

Montreal protocolNot applicableStockholm conventionNot applicableRotterdam conventionNot applicableKyoto protocolNot applicable

Inventory Status:

Australia AICS

On or in compliance with the inventory

Canada DSL Inventory List

On or 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

On or in compliance with the inventory

Canada NDSL Inventory

Philippines PICCS

Not in compliance with the inventory.

US TSCA Inventory

On or in compliance with the inventory

New Zealand Inventory of Chemicals

Japan ISHL Listing

Not in compliance with the inventory.

Not in compliance with the inventory.

Not in compliance with the inventory.

Mexico INSQ

Not in compliance with the inventory.

Ontario Inventory

On or in compliance with the inventory

Taiwan Chemical Substance

Inventory

On or in compliance with the inventory

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

MARCH 2024



16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue Date: 09/13/2021

Revision Information: No data available.

Version#: 1.1

Further Information: No data available.

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent

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