SAFETY DATA SHEET



Clear Image Glass & Surface Cleaner

Section 1. Identif	ication
GHS product identifier	: Clear Image Glass & Surface Cleaner
Product code	: 092
Other means of identification	: Not available.
Product type	: Aerosol.
Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	
Glass cleaners	
Uses advised against Not applicable.	
Supplier's details	: Betco Corporation 400 Van Camp Road Bowling Green, Ohio 43402 www.betco.com 888-462-3826
Emergency telephone number	: Chemtrec (800) 424-9300 24 hour
Section 2. Hazard	Is identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: GASES UNDER PRESSURE - Liquefied gas
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Contains gas under pressure; may explode if heated.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Protect from sunlight. Store in a well-ventilated place.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture

Other means of identification

- : Mixture
- : Not available.

Ingredient name	%	CAS number
2-butoxyethanol	≤5	111-76-2
propan-2-ol	≤5	67-63-0
propane	≤5	74-98-6
ethanol	≤5	64-17-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	 Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Most important sympt	toms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	s/symptoms
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immedia	te medical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Date of issue/Date of revision	: 3/18/2024	Date of previous issue	: No previous validation	Version : 1	2/14
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Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	 In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated

absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Absorbed th TWA: 25 pp TWA: 120 n NIOSH REL Absorbed th TWA: 5 ppn TWA: 25 pp TWA: 25 pp TWA: 25 pp TWA: 20 pp OSHA PEL (Absorbed th TWA: 20 pp OSHA PEL (Absorbed th TWA: 50 pp TWA: 20 pp OSHA PEL (Absorbed th TWA: 20 pp WA: 20 pp TWA: 20 pp TWA: 20 pp STEL: 20 pp STEL: 400 p STEL: 500 p STEL: 500 p STEL: 1225 NIOSH REL	0
TWA: 25 pp TWA: 120 n NIOSH REL Absorbed th TWA: 5 ppn TWA: 24 mg ACGIH TLV TWA: 20 pp OSHA PEL (Absorbed th TWA: 50 pp TWA: 20 pp OSHA PEL (Absorbed th TWA: 20 pp STEL: 400 p STEL: 400 p STEL: 500 p STEL: 500 p STEL: 1225 NIOSH REL	0
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TWA: 120 n NIOSH REL Absorbed th TWA: 5 ppn TWA: 24 mg ACGIH TLV (TWA: 20 pp OSHA PEL (Absorbed th TWA: 50 pp TWA: 20 n OSHA PEL (Absorbed th TWA: 20 pp STEL: 400 p STEL: 400 p TWA: 200 p STEL: 400 p STEL: 500 p STEL: 500 p STEL: 1225 NIOSH REL	
propan-2-ol propan-2-ol Absorbed th TWA: 20 pp OSHA PEL (Absorbed th TWA: 20 pp TWA: 20 pp TWA: 240 n CAL OSHA F Absorbed th TWA: 97 mg TWA: 20 pp STEL: 400 p STEL: 400 p STEL: 400 p STEL: 400 p STEL: 500 p STEL: 500 p STEL: 1225 NIOSH REL	g/m³ 8 hours.
propan-2-ol TWA: 5 ppn TWA: 24 mg ACGIH TLV TWA: 20 pp OSHA PEL (Absorbed th TWA: 50 pp TWA: 240 n CAL OSHA F Absorbed th TWA: 97 mg TWA: 20 pp STEL: 20 pp STEL: 400 p STEL: 400 p STEL: 400 p STEL: 400 p STEL: 1225 NIOSH REL	Inited States, 10/2020).
TWA: 24 mg ACGIH TLV TWA: 20 pp OSHA PEL (Absorbed th TWA: 20 pp TWA: 240 n CAL OSHA F Absorbed th TWA: 20 pp TWA: 20 pp TWA: 20 pp TWA: 20 pp STEL: 400 p STEL: 400 p STEL: 400 p STEL: 400 p STEL: 500 p STEL: 500 p STEL: 1225 NIOSH REL	ough skin.
ACGIH TLV (TWA: 20 pp OSHA PEL (Absorbed th TWA: 50 pp TWA: 240 n CAL OSHA F Absorbed th TWA: 20 pp TWA: 20 pp STEL: 20 pp STEL: 400 p STEL: 400 p STEL: 500 p STEL: 500 p STEL: 1225 NIOSH REL	10 hours.
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propan-2-ol propan-2-ol Absorbed th TWA: 240 n CAL OSHA F Absorbed th TWA: 97 m TWA: 20 pp STEL: 20 p STEL: 400 p STEL: 400 p TWA: 980 n STEL: 500 p STEL: 1225 NIOSH REL	n 8 hours.
TWA: 50 pp TWA: 240 n CAL OSHA F Absorbed th TWA: 97 mg TWA: 20 pp TWA: 20 pp STEL: 400 p STEL: 400 p TWA: 980 n STEL: 500 p STEL: 1225 NIOSH REL	nited States, 5/2018).
TWA: 240 n CAL OSHA F Absorbed th TWA: 97 mg TWA: 20 pp TWA: 20 pp STEL: 400 p STEL: 400 p TWA: 980 m STEL: 500 p STEL: 1225 NIOSH REL	ough skin.
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propan-2-ol ACGIH TLV (TWA: 20 pp TWA: 200 p STEL: 400 p STEL: 400 p TWA: 980 n STEL: 500 p STEL: 1225 NIOSH REL	EL (United States, 5/2018).
propan-2-ol ACGIH TLV (TWA: 200 p STEL: 400 p STEL: 400 p TWA: 400 p TWA: 980 n STEL: 500 p STEL: 1225 NIOSH REL	-
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TWA: 200 p STEL: 400 p OSHA PEL 1 TWA: 400 p TWA: 980 n STEL: 500 p STEL: 1225 NIOSH REL	Jnited States, 1/2022).
OSHA PEL 1 TWA: 400 p TWA: 980 n STEL: 500 p STEL: 1225 NIOSH REL	m 8 hours.
TWA: 400 p TWA: 980 n STEL: 500 p STEL: 1225 NIOSH REL	om 15 minutes.
TWA: 980 n STEL: 500 p STEL: 1225 NIOSH REL	89 (United States, 3/1989).
STEL: 500 p STEL: 1225 NIOSH REL	m 8 hours.
STEL: 1225 NIOSH REL	g/m³ 8 hours.
NIOSH REL	om 15 minutes.
	ng/m³ 15 minutes.
L TWA: 400 p	Jnited States, 10/2020).
	m 10 hours.
	g/m³ 10 hours.
	om 15 minutes.
	ng/m ³ 15 minutes.
	nited States, 5/2018).
TWA: 400 p	
	$g/m^3 8$ hours.
	EL (United States, 5/2018).
STEL: 1225	ng/m³ 15 minutes.
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Section 8. Exposure controls/personal protection

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	STEL: 500 ppm 15 minutes.
	TWA: 980 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
propane	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1000 ppm 8 hours.
	TWA: 1800 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2020).
	TWA: 1000 ppm 10 hours.
	TWA: 1800 mg/m ³ 10 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 1000 ppm 8 hours.
	TWA: 1800 mg/m ³ 8 hours.
	ACGIH TLV (United States, 1/2022). Oxygen
	Depletion [Asphyxiant]. Explosive potential.
	CAL OSHA PEL (United States, 5/2018). TWA: 1800 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.
ethanol	ACGIH TLV (United States, 1/2022).
	STEL: 1000 ppm 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m ³ 8 hours.
	NIOSH REL (United States, 10/2020).
	TWA: 1000 ppm 10 hours.
	TWA: 1900 mg/m ³ 10 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m ³ 8 hours.
	CAL OSHA PEL (United States, 5/2018).
	TWA: 1900 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
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Biological exposure indices

Ingredient name	Exposure indices
2-butoxyethanol	ACGIH BEI (United States, 1/2022) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
propan-2-ol	ACGIH BEI (United States, 1/2022) BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.

Appropriate engineering controls	or mi	only with adequate ventilation. st, use process enclosures, lo ep worker exposure to airborn	cal exhaust ventilation or c	other engineering cor	ntrols	
Environmental exposure controls	they case	sions from ventilation or work comply with the requirements of s, fume scrubbers, filters or en e necessary to reduce emissio	of environmental protection gineering modifications to	n legislation. In som	е	
Individual protection meas	ures					
Hygiene measures	eatin Appr Wasl	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.				
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Vapor pressure

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Section 8. Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance	
Physical state	: Liquid. [Liquefied compressed gas.]
Color	: Clear. Colorless.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Closed cup: -104.44°C (-156°F)
Flammability	: Flammable in the presence of the following materials or conditions: heat.
Lower and upper explosion limit/flammability limit	: Not available.

	V	Vapor Pressure at 20°C		Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
propane	6300.51	840				
butane	1602.88	213.7				
ethanol	42.95	5.7			Not applicable	
2-methylpropan-2-ol	40.6	5.4				
propan-2-ol	33	4.4				
water	17.5	2.3				
morpholine	7.35	0.98	OECD 104			
2-butoxyethanol	0.75	0.1				
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Section 9. Physical and chemical properties and safety characteristics

Particle characteristics					
Viscosity	: Not ava	ailable.			
Heat of combustion	: 4.442 k	J/g			
Decomposition temperature	: Not ava	ailable.			
Auto-ignition temperature	: Not ava	ailable.			
Partition coefficient: n- octanol/water	: Not app	olicable.			
Solubility in water	: Not ava	ailable.			
Relative density	: Not ava	ailable.			
Relative vapor density	: Not ava	ailable.	•		
Linalool	0.2	0.027	OECD 104		
N-lauroylsarcosine	0.21	0.028			

Section 10. Stabil	ity and reactivity
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
-				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	0.066666667	-
				minutes 100	
				mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
2-butoxyethanol	-	3	-
propan-2-ol	-	3	-
ethanol	-	1	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name		Route of exposure	Target organs
propan-2-ol propane	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
2-butoxyethanol	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

- : Routes of entry anticipated: Dermal, Inhalation, Eyes.
- Routes of entry not anticipated: Oral.

Potential acute health effects

Section 11. Toxicological information

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to	the physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
2-butoxyethanol	500	N/A	N/A	N/A	N/A
propan-2-ol	5000	12800	N/A	N/A	N/A
ethanol	7000	N/A	N/A	124.7	N/A

Section 12. Ecological information

Toxicity

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
-	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250 ppm Marine water	Fish - Menidia beryllina	96 hours
propan-2-ol	Acute EC50 7550 mg/l Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki -</i> Larvae	12 weeks

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-butoxyethanol	0.81	-	Low
propan-2-ol	0.05	-	Low
propane	1.09	-	Low
ethanol	-0.35	-	Low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

the sewer unless fully compliant with the requirements of all authorities with jurisdiction Waste packaging should be recycled. Incineration or landfill should only be considere	Disposal methods	
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Section 14. Transport information

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS, FLAMMABLE	AEROSOLS, FLAMMABLE	AEROSOLS, FLAMMABLE	AEROSOLS	AEROSOLS, FLAMMABLE
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional inform DOT Classificat TDG Classificat IMDG IATA	ion : <u>Limi</u> ion : Prod Goo : Limit	ted quantity Yes. luct classified as per ds Regulations: 2.13- ted quantity Yes ed quantity Yes-	2.17 (Class 2).	s of the Transportatio	n of Dangerous
Special precautio	uprig	sport within user's yht and secure. Ensu it of an accident or sp	re that persons trans		
Transport in bulk	according : Not a	available.			

to IMO instruments

Section 15. Regulatory information

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U.S. Federal regulations	:	TSCA 8(a)	PAIR: 2-methylpropan-2-o	bl		
		TSCA 8(a)	CDR Exempt/Partial exe	mption: Not determined	l	
		Clean Air A	ct (CAA) 112 regulated	flammable substances	: propane; butane	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not listed				
Clean Air Act Section 602 Class I Substances	:	Not listed				
Clean Air Act Section 602 Class II Substances	:	Not listed				
DEA List I Chemicals (Precursor Chemicals)	:	Not listed				
DEA List II Chemicals (Essential Chemicals)	:	Not listed				
SARA 302/304						
Composition/information	<u>on</u>	ingredients				
No products were found.						
SARA 304 RQ	:	Not applicat	ole.			
SARA 311/312						
Classification	:	GASES UND	ER PRESSURE - Liquefi	ed gas		
Composition/information	on	ingredients				
Date of issue/Date of revision	: 3/	/18/2024	Date of previous issue	: No previous validation	Version : 1	11/14

Section 15. Regulatory information

Name	%	Classification
2-butoxyethanol	≤5	FLAMMABLE LIQUIDS - Category 4
		ACUTE TOXICITY (oral) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		ASPIRATION HAZARD - Category 1
propan-2-ol	≤5	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
propane	≤5	FLAMMABLE GASES - Category 1
		GASES UNDER PRESSURE - Liquefied gas
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
butane	≤5	FLAMMABLE GASES - Category 1
		GASES UNDER PRESSURE - Compressed gas
ethanol	≤5	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2-butoxyethanol	111-76-2	≤5
Supplier notification	2-butoxyethanol	111-76-2	≤5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	 The following components are listed: 2-BUTOXYETHANOL; ISOPROPYL ALCOHOL; PROPANE; BUTANE; ETHYL ALCOHOL
New York	: None of the components are listed.
New Jersey	 The following components are listed: 2-BUTOXY ETHANOL; ISOPROPYL ALCOHOL; PROPANE; BUTANE; ETHYL ALCOHOL
Pennsylvania	 The following components are listed: ETHANOL, 2-BUTOXY-; 2-PROPANOL; PROPANE; BUTANE; ETHANOL
California Dran CE	

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed. <u>Montreal Protocol</u>

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

: All components are listed or exempted.
: All components are listed or exempte

Canada : All components are listed or exempted
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China : All components are listed or exempted.

Section 15. Regulatory information

Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): At least one component is not listed.
All components are listed or exempted.
All components are listed or exempted.
All components are listed or exempted.
At least one component is not listed.
Not determined.
Not determined.
Not determined.
All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
GASES UNDER PRESSURE - Liquefied gas	Expert judgment
History	

Date of printing	: 4/29/2024
Date of issue/Date of revision	: 3/18/2024
Date of previous issue	: No previous validation
Version	: 1
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Date of issue/Date of revision	: 3/18/2024	Date of previous issue	: No previous validation	Version : 1	13/14
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Section 16. Other information

References

: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.