claire.

SAFETY DATA SHEET

1. Identification

Product number	1000010642
Product identifier	GLEME UTILITY CLEANER
Revision date	06-09-2015
Company information	Claire Manufacturing Co. 1005 S. Westgate Drive Addison, IL 60101 United States
Company phone	General Assistance 1-630-543-7600
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	02
Supersedes date	05-30-2015
Recommended use	Cleaner
Recommended restrictions	None known.
2. Hazard(s) identification	

(5)

Physical hazards	Flammable aerosols
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		
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.	
Response	If exposed or concerned: Get medical advice/attention.	
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

Category 1

3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	1 - 2.5
Butane		106-97-8	1 - 2.5
Ethyl Alcohol		64-17-5	1 - 2.5
Other components below reportable	levels		90 - 100

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

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.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Not available.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with 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. 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	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. 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. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

2 Butowyothanal (CAS	ſy	pe			Value
2-Butoxyethanol (CAS 111-76-2)	PE	L			240 mg/m3
,					50 ppm
Ethyl Alcohol (CAS 64-17-5) PE	L			1900 mg/m3 1000 ppm
US ACCIU Threadedd i'w					
US. ACGIH Threshold Lim Components	Ty	pe			Value
2-Butoxyethanol (CAS	TV				20 ppm
111-76-2)					
Butane (CAS 106-97-8)	ST				1000 ppm
Ethyl Alcohol (CAS 64-17-5					1000 ppm
US. NIOSH: Pocket Guide		-			Value
Components	Ту	-			
2-Butoxyethanol (CAS 111-76-2)	TΜ	'A			24 mg/m3
,					5 ppm
Butane (CAS 106-97-8)	TΜ	/A			1900 mg/m3
	\ \s	/ ^			800 ppm
Ethyl Alcohol (CAS 64-17-5) TV	A			1900 mg/m3 1000 ppm
1					
logical limit values					
ACGIH Biological Exposu Components	re indices Value	Deter	minant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	acid (yacetic BAA), ydrolysis	Creatinine urine	in *
* - For sampling details, plea	ase see the source do		5		
oosure guidelines					
US - California OELs: Skir	n designation				
2-Butoxyethanol (CAS		oplies	Can be	absorbed th	rough the skin.
US - Minnesota Haz Subs:		-			
2-Butoxyethanol (CAS	111-76-2)		Skin de	signation ap	plies.
2-Butoxyethanol (CAS US - Tennesse OELs: Skir 2-Butoxyethanol (CAS	111-76-2) n designation 111-76-2)	Skin des	Can be		plies. rough the skin.
2-Butoxyethanol (CAS US - Tennesse OELs: Skin 2-Butoxyethanol (CAS US NIOSH Pocket Guide to 2-Butoxyethanol (CAS	111-76-2) n designation 111-76-2) o Chemical Hazards 111-76-2)		Can be signation Can be	absorbed th absorbed th	
2-Butoxyethanol (CAS US - Tennesse OELs: Skir 2-Butoxyethanol (CAS US NIOSH Pocket Guide to	111-76-2) n designation 111-76-2) o Chemical Hazards 111-76-2) s for Air Contaminat		Can be signation Can be R 1910.100	absorbed th absorbed th 0)	rough the skin.
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2-Butoxyethanol (CAS US - Tennesse OELs: Skir 2-Butoxyethanol (CAS US NIOSH Pocket Guide to 2-Butoxyethanol (CAS US. OSHA Table Z-1 Limit 2-Butoxyethanol (CAS propriate engineering ntrols	111-76-2) n designation 111-76-2) o Chemical Hazards 111-76-2) s for Air Contaminat 111-76-2) Good general ver should be matche or other engineer exposure limits has s, such as personal Wear safety glass	nts (29 CF ntilation (ty ed to cond ing contro ave not be protectiv ses with si	Can be signation Can be R 1910.10 Can be rpically 10 a itions. If app Is to mainta een establish e equipmen de shields (absorbed th absorbed th 00) absorbed th ir changes pe licable, use p n airborne le ned, maintain nt or goggles).	rough the skin. rough the skin. rough the skin. er hour) should be used. Ventilation rates process enclosures, local exhaust ventilation vels below recommended exposure limits.
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2-Butoxyethanol (CAS US - Tennesse OELs: Skir 2-Butoxyethanol (CAS US NIOSH Pocket Guide to 2-Butoxyethanol (CAS US. OSHA Table Z-1 Limit 2-Butoxyethanol (CAS propriate engineering ntrols	111-76-2) n designation 111-76-2) o Chemical Hazards 111-76-2) s for Air Contaminal 111-76-2) Good general ver should be matche or other engineer exposure limits have s, such as personal Wear safety glass Wear appropriate Wear suitable pro	nts (29 CF ntilation (ty ed to cond ing contro ave not be protectiv ses with si chemical tective clo els are exo	Can be signation Can be FR 1910.100 Can be vpically 10 a itions. If app is to mainta een establish e equipmen de shields (resistant glue othing.	absorbed th absorbed th 100 absorbed th ir changes pe licable, use p n airborne le ned, maintain nt or goggles). oves.	rough the skin. rough the skin. rough the skin. er hour) should be used. Ventilation rates process enclosures, local exhaust ventilation vels below recommended exposure limits.

When using do not smoke. Always observe good personal hygiene measures, such as washing 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	
Physical state	Gas.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	-156.0 °F (-104.4 °C) propellant estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	23.01 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information Specific gravity	0.979 estimated
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal co

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
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	Not available.

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 physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological eff	ects
Acute toxicity	

2-Butoxyethanol (CAS 111-76-2) Acute 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 0.63 ml/kg Rat 400 ppm, 7 Hours Rat 400 ppm, 7 Hours Rat 450 ppm, 4 Hours Oral LD50 Rabbit 695 mg/kg Guinea pig 2000 mg/kg Rat 530 - 2800 mg/kg Butane (CAS 106-97-8) Acute Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes 52 %, 120 Minutes Fat 355 mg/l Ethyl Alcohol (CAS 64-17-5) Acute Inhalation LC50 Cat 85.41 mg/l, 4.5 Hours 4.08 mg/l, 6 Hours Mouse 79.43 mg/l, 130 Minutes Rat 2135 mg/l Ethyl Alcohol (CAS 64-17-5) Acute Inhalation LC50 Cat 85.41 mg/l, 4.5 Hours 4.08 mg/l, 6 Hours 79.43 mg/l, 130 Minutes Fat 2115 mg/l, 4 Hours 51.3 mg/l, 6 Hours 1250 Mouse 10500 ml/kg Rat 10500 ml/kg Rat 10500 ml/kg	Components	Species	Test Results
Demai230 ml/kg.24 HoursLD50Guinea pig7.3 ml/kg.44 HoursRabbit650 ml/kg.24 Hours435 mg/kg.24 Hours0.63 ml/kg435 mg/kg.24 Hours0.63 ml/kgInhatation0.63 ml/kgLC50Rabbit400 ppm, 7 HoursLC50Rabbit400 ppm, 7 HoursDrai100 pm, 7 HoursLD100Rabbit695 mg/kgLD50Dog695 mg/kgLD50Guinea pig200 mg/kgLC50Guinea pig200 mg/kgLD50Mouse500 rg/kgLC50Mouse1237 mg/l, 120 MinutesLC50Mouse1237 mg/l, 120 MinutesLC50Rat355 mg/lLC50Mouse1355 mg/lLC50Cat3.68 mg/l, 6 HoursHalation1356 mg/l, 4 HoursLC50Cat3.68 mg/l, 6 HoursLC50Rat3.13 mg/l, 120 MinutesEthyl Alcohol (CAS 64-17-5)3.68 mg/l, 6 HoursLC50Rat3.13 mg/l, 4 HoursLC50Rat3.13 mg/l, 4 HoursLC50Rat3.13 mg/l, 6 HoursRatSati mg/l, 4 Hours </td <td>2-Butoxyethanol (CAS 111-70</td> <td>6-2)</td> <td></td>	2-Butoxyethanol (CAS 111-70	6-2)	
LD50Guinea pig230 ml/kg, 24 Hours7.3 ml/kg, 4 Days7.3 ml/kg, 4 Days450 ml/kg, 24 Hours450 ml/kg, 24 Hours0.63 ml/kgKat2000 mg/kg, 24 Hours1/halationLC50RatCralCralLD100RabbitGuinea pigGuinea pigCoralLD50RatCoralCralLD50RatCoralLD50RatSolora pikgCAS 106-97-8)LC50MouseRatLC50MouseLC50MouseLC50MouseLC50MouseSolora pikgHalationLC50RatSolora pikgLC50MouseSolora pikgSolora pikgLC50MouseSolora pikgSolora pikgLC50RatSolora pikgSolora pikgS	Acute		
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Rabbit 450 m/kg, 24 Hours 0.63 m/kg, 0.63 m/kg, 0.63 m/kg, 24 Hours 10.63 m/kg, 200 m/kg, 10.63 m/kg, 1327 m/g/, 120 Minutes 10.65 m/kg, 1327 m/g/, 134 Minutes 10.65 m/kg, 140 m/g, 14.61 Hours 10.65 m/kg, 141 Hours 10.65 m/g, <td< td=""><td>LD50</td><td>Guinea pig</td><td>230 ml/kg, 24 Hours</td></td<>	LD50	Guinea pig	230 ml/kg, 24 Hours
Ast marking, 24 Hours 0.63 mi/kg Inhalation > 2000 mg/kg, 24 Hours LC50 Rat 400 ppm, 7 Hours LC50 Rabbit 400 ppm, 7 Hours Cral 450 ppm, 4 Hours 100 ppm, 7 Hours LD100 Rabbit 695 mg/kg LD100 Rabbit 695 mg/kg LD50 Dog 695 mg/kg LD50 Guinea pig 1200 mg/kg Rat 500 2000 mg/kg 2000 mg/kg Butane (CAS 106-97-8) Kat 500 - 2000 mg/kg Acute Inhalation 1207 mg/l, 120 Minutes LC50 Mouse 237 mg/l, 120 Minutes LC50 Rat 1355 mg/l Ethyl Acute Nouse 3.68 mg/l, 6 Hours Inhalation LC50 Rat 3.68 mg/l, 6 Hours LC50 Cat 43.68 mg/l, 4.5 Hours LC50 Mouse 60000 ppm LC50 Rat 115.9 mg/l, 41 Hours LC50 Rat 115.9 mg/l, 4 Hours LD50 Monkey 6000 mg/kg LD50 Monkey 6000 mg/kg			7.3 ml/kg, 4 Days
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Inhalation LC50 Rabbit 400 ppm, 7 Hours Rat 450 ppm, 4 Hours Oral LD100 Rabbit 695 mg/kg LD50 Dog 695 mg/kg LD50 Dog 695 mg/kg (Guinea pig 1200 mg/kg Rat 530 - 2800 mg/kg Butane (CAS 106-97-8) Acute 100 Mouse 1237 mg/l, 120 Minutes 52 %, 120 %, 120 %, 120 %, 120 %, 120 %, 120 %, 120 %, 120 %, 120 %, 120 %			0.63 ml/kg
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Rat 450 pm, 4 Hours Oral 1000 LD100 Rabbit D30 695 mg/kg LD50 Dog Guinea pig 1200 mg/kg Rat 530 - 2800 mg/kg Butane (CAS 106-97-8) - Acute 1237 mg/l, 120 Minutes Inhalation 22%, 120 Minutes LC50 Mouse 1237 mg/l, 120 Minutes Ethyl Alcohol (CAS 64-17-5) - - Acute 1355 mg/l Inhalation - - LC50 Cat 45.41 mg/l, 4.5 Hours Inhalation - - LC50 Cat 43.68 mg/l, 6 Hours Inhalation - - LC50 Cat - Inhalation - - LC50 Cat - Mouse - - Inhalation - - LC50 Cat - - Rat - - - LD50 Monkey - - Oral - - - LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg -	Inhalation		
Oral Rabbit 695 mg/kg LD100 Dog > 695 mg/kg LD50 Dog > 695 mg/kg LD50 Rat 500 mg/kg Butane (CAS 106-97-8) Kat 500 - 2800 mg/kg Acute Inhalation Inhalation Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes Ethyl Alcohol (CAS 64-17-5) Rat 355 mg/l Inhalation LC50 Cat 85.41 mg/l, 4.5 Hours 1355 mg/l Ethyl Alcohol (CAS 64-17-5) House 43.68 mg/l, 6 Hours 143.68 mg/l, 6 Hours Inhalation Inhalation Inhalation 115.9 mg/l, 134 Minutes LC50 Cat 85.41 mg/l, 4.5 Hours 135 mg/l, 6 Hours Mouse > 60000 ppm 74.43 mg/l, 134 Minutes 115.9 mg/l, 9 Hours Inhalation Inhalation Inhalation 115.9 mg/l, 9 Hours LC50 Kat 115.9 mg/l, 14 Hours 115.9 mg/l, 9 Hours Inhalation Inhalation Inhalation Inhalation Intervention Inhalation Inhalation Inhalation	LC50	Rabbit	400 ppm, 7 Hours
LD100Rabbit695 mg/kgLD50Dog<695 mg/kg		Rat	450 ppm, 4 Hours
LD50 Dog > 695 mg/kg Guinea pig 1200 mg/kg Rat 500 - 2800 mg/kg Butane (CAS 106-97-8) - Acute - Inhalation - LC50 Mouse 1237 mg/l, 120 Minutes C50 Mouse 237 mg/l, 120 Minutes Ethyl Alcoho 1355 mg/l LC50 Mouse 368 mg/l, 610urs Kaute - - Inhalation - - LC50 Cat 85.41 mg/l, 4.5 Hours Inhalation - - LC50 Mouse - - Mouse > 60000 ppm - - - - - Cora/ - - - LD50 Money - - Mouse - - - LD50 Money - - Mouse - - - LD50 Money - - Mouse - - - L	Oral		
Suinea pig Rat1200 mg/kgButane (CAS 106-97-8)530 - 2800 mg/kgAcute Inhalation LC50Mouse1237 mg/l, 120 Minutes 52 %, 120 MinutesRat1355 mg/lEthyl Alcohol (CAS 64-17-5)Rat355 mg/lAcute Inhalation LC50Cat85.41 mg/l, 4.5 Hours 43.68 mg/l, 6 HoursMouse> 60000 ppmRat115.9 mg/l, 134 MinutesCoral LD50Rat> 115.9 mg/l, 4 Hours 115.9 mg/l, 4 HoursOral LD50Kat6000 mg/kgRat115.9 mg/l, 6 HoursAcute Rat10500 ml/kgRat10500 ml/kg	LD100	Rabbit	695 mg/kg
Rat 530 - 2800 mg/kg Butane (CAS 106-97-8)	LD50	Dog	> 695 mg/kg
Butane (CAS 106-97-8) Acute Inhalation LC50 Mouse Rat Interference Rat		Guinea pig	1200 mg/kg
Acute Inhalation LC50Mouse1237 mg/l, 120 Minutes 52 %, 120 Minutes 52 %, 120 MinutesEthyl Alcohol (CAS 64-17-5)Rat1355 mg/lAcute Inhalation LC50Cat85.41 mg/l, 4.5 Hours 43.68 mg/l, 6 HoursMouse> 60000 ppmRat> 115.9 mg/l, 134 MinutesOral LD50Kate51.3 mg/l, 6 HoursOral LD50Monkey6000 mg/kgMouse10500 ml/kgRat10500 ml/kgMouse10500 ml/kg		Rat	530 - 2800 mg/kg
AcuteInhalationLC50Mouse1237 mg/l, 120 Minutes52 %, 120 Minutes52 %, 120 Minutes52 %, 120 MinutesEthyl Alcohol (CAS 64-17-5)AcuteInhalationLC50CatMouseAcuteMouseSe mg/l, 6 HoursRatAcuteDralLD50MonkeyMouseOralLD50MonkeyMouseMouseAcuteDralLD50MonkeyMouse1000 mg/kgMouse1000 mg/kgMouse10500 ml/kgMouse10500 ml/kgMouse10500 ml/kgMouse10500 ml/kgMouse10500 ml/kgMouse10500 ml/kg	Butane (CAS 106-97-8)		
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Rat1355 mg/lAcuteInhalationLC50Cat85.41 mg/l, 4.5 HoursLC50Cat43.68 mg/l, 6 HoursMouse> 60000 ppm79.43 mg/l, 134 Minutes79.43 mg/l, 134 MinutesRat> 115.9 mg/l, 4 HoursCoralILD50Monkey6000 mg/kgMouse10500 ml/kgRat1187-2769 mg/kg	LC50	Mouse	1237 mg/l, 120 Minutes
Ethyl Alcohol (CAS 64-17-5) Acute Inhalation LC50 Cat Mouse Rat Cral Cat Mouse Rat Cral Cat Mouse Rat Cral Cat Mouse Rat Cat Cat Cat Cat Cat Cat Cat Cat Cat C			52 %, 120 Minutes
Acute Inhalation LC50 Cat Acute Mouse Part Part Part Part Part Part Part Part		Rat	1355 mg/l
Inhalation Extension 85.41 mg/l, 4.5 Hours LC50 Cat 43.68 mg/l, 6 Hours Mouse > 60000 ppm 79.43 mg/l, 134 Minutes 79.43 mg/l, 134 Minutes Rat > 115.9 mg/l, 4 Hours Dral 51.3 mg/l, 6 Hours Mouse 000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg	Ethyl Alcohol (CAS 64-17-5)		
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Mouse > 6000 ppm 79.43 mg/l, 134 Minutes 79.43 mg/l, 134 Minutes Rat > 115.9 mg/l, 4 Hours 51.3 mg/l, 6 Hours 51.3 mg/l, 6 Hours Oral LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg	LC50	Cat	85.41 mg/l, 4.5 Hours
Part Part Part Part Part Part Part Part			43.68 mg/l, 6 Hours
Rat > 115.9 mg/l, 4 Hours 51.3 mg/l, 6 Hours Oral LD50 Monkey Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg		Mouse	> 60000 ppm
Oral 51.3 mg/l, 6 Hours D50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg			79.43 mg/l, 134 Minutes
Oral 6000 mg/kg LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg		Rat	> 115.9 mg/l, 4 Hours
LD50 Monkey 6000 mg/kg Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg			51.3 mg/l, 6 Hours
Mouse 10500 ml/kg Rat 1187 - 2769 mg/kg	Oral		
Rat 1187 - 2769 mg/kg	LD50	Monkey	6000 mg/kg
		Mouse	10500 ml/kg
		Rat	1187 - 2769 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitizatior	1
Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall I	Evaluation of Carcinogenicity
2-Butoxyethanol (CAS 11 OSHA Specifically Regulate	1-76-2) 3 Not classifiable as to carcinogenicity to humans. d Substances (29 CFR 1910.1001-1050)
Not listed.	
Reproductive toxicity	This product is not expected to cause 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 product.
Chronic effects	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.

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12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the Ecotoxicity possibility that large or frequent spills can have a harmful or damaging effect on the environment. Components **Species Test Results** 2-Butoxyethanol (CAS 111-76-2) Aquatic Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours Ethyl Alcohol (CAS 64-17-5) Aquatic Crustacea **EC50** Water flea (Daphnia magna) 7700 - 11200 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) > 100.1 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product. Persistence and degradability **Bioaccumulative potential** No data available. Partition coefficient n-octanol / water (log Kow) 2-Butoxyethanol 0.83 Butane 2.89 Ethyl Alcohol -0.31 No data available. Mobility in soil 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).

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

ООТ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	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 excepti	on requirements of section 173 306 as a limited quantity and may be shipped as a limited quanti

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.

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UN numberUN1950VN proper shipping nameAcrosols, flammableTransport hazard class(e)ClassClass2.1Subsidiary risk-Label(s)2.1Packing groupNot applicable.Environmental hazardsNo.Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Other informationHowed.range aircraftAllowed.Cargo aircraft onlyAllowed.VN numberUN1950UN numberUN1950UN proper shipping nameAEROSOLSTransport hazard class(e)2.1Class2.1Label(s)2.1Subsidiary risk-Acting groupNot applicable.Interpret hazard class(e)2.1Class2.1Class2.1Acterosolus2.1Subsidiary risk-Class2.1Subsidiary risk-Class2.1Subsidiary risk-Actard class(e)-Class2.1Not applicableInterpret hazard class(e)-Class0.0Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Packaing ExceptionsNot applicable.Interpret for user-Actin (Group for user)-Packaing For (Group for user)Not applicable.First (Group for (Group for User)-Pack		
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the IBC Code		
	the IBC Code	



15. Regulatory information

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)

Not 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)

No

Hazard categories

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting) Not regulated.

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)

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)

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)

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)

US. Rhode Island RTK

Butane (CAS 106-97-8)

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)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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 Revision date Version #	05-30-2015 06-09-2015 02
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.
Revision Information	Product and Company Identification: Alternate Trade Names Transport Information: Material Transportation Information GHS: Classification