# SAFETY DATA SHEET



	1. Product and Company I	dentification	
Product identifier	Evap Foam No Rinse-Aerosol (4171-7	5)	
Other means of identification	Not available		
Recommended use	Cleaner		
Recommended restrictions	None known.		
Manufacturer information	Nu-Calgon 2008 Altom Court St. Louis, MO 63146 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)		
Supplier	See above.		
	2. Hazards Identific	ation	
Physical hazards	Gases under pressure	Liquefied gas	
Health hazards	Serious eye damage/eye irritation	Category 1	
Environmental hazards	Not classified.		
WHMIS 2015 defined hazards	Not classified		
Label elements			
Signal word	Danger		
	Contains gas under pressure; may explode if heated. Causes serious eye damage.		
Hazard statement	Contains gas under pressure; may explo	ode if heated. Causes serious eye damage.	
Hazard statement Precautionary statement	Contains gas under pressure; may explo	ode if heated. Causes serious eye damage.	
	Contains gas under pressure; may explo Wear eye/face protection.	ode if heated. Causes serious eye damage.	
Precautionary statement	Wear eye/face protection.	for several minutes. Remove contact lenses, if present	
Precautionary statement Prevention	Wear eye/face protection. IF IN EYES: Rinse cautiously with water	for several minutes. Remove contact lenses, if present liately call a POISON CENTER/doctor.	
Precautionary statement Prevention Response	Wear eye/face protection. IF IN EYES: Rinse cautiously with water and easy to do. Continue rinsing. Immed	for several minutes. Remove contact lenses, if present liately call a POISON CENTER/doctor. titlated place.	
Precautionary statement Prevention Response Storage	Wear eye/face protection. IF IN EYES: Rinse cautiously with water and easy to do. Continue rinsing. Immed Protect from sunlight. Store in a well-ven	for several minutes. Remove contact lenses, if present liately call a POISON CENTER/doctor. titlated place.	
Precautionary statement Prevention Response Storage Disposal WHMIS 2015: Health Hazard(s) not otherwise classified	Wear eye/face protection. IF IN EYES: Rinse cautiously with water and easy to do. Continue rinsing. Immed Protect from sunlight. Store in a well-ver Dispose of waste and residues in accord	for several minutes. Remove contact lenses, if present liately call a POISON CENTER/doctor. titlated place.	
Precautionary statement Prevention Response Storage Disposal WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) WHMIS 2015: Physical Hazard(s) not otherwise	Wear eye/face protection. IF IN EYES: Rinse cautiously with water and easy to do. Continue rinsing. Immed Protect from sunlight. Store in a well-ven Dispose of waste and residues in accord None known	for several minutes. Remove contact lenses, if present liately call a POISON CENTER/doctor. titlated place.	
Precautionary statement Prevention Response Storage Disposal WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC) Hazard(s) not otherwise	Wear eye/face protection. IF IN EYES: Rinse cautiously with water and easy to do. Continue rinsing. Immed Protect from sunlight. Store in a well-ver Dispose of waste and residues in accord None known	for several minutes. Remove contact lenses, if present liately call a POISON CENTER/doctor. titlated place.	

#### Mixture

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	1-5
Diethylene glycol monoethyl ether		111-90-0	1-5
Ethanol, 2-butoxy-		111-76-2	1-5
Propane		74-98-6	1-5
Tetrasodium ethylenediamine tetraacetate		64-02-8	1-5
Sodium metasilicate		6834-92-0	<1

# 4. First Aid Measures

	4. FIISLAIU MEASULES	
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.	
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.	
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.	
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.	
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.	
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	Alcohol foam. Carbon dioxide. Dry chemical. Foam.	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	Contents under pressure.	
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	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. 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	Cool containers exposed to flames with water until well after the fire is out.	
Hazardous combustion products	May include and are not limited to: Oxides of carbon.	
	6. Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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 Environmental precautions	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. This product is miscible in water. 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. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. 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. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment.	
	Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as	
Conditions for safe storage, including any incompatibilities	can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).	

Occupational exposure limits						
Canada. Alberta OELs (Occupati	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)					
Components	Туре	Value				
Butane (CAS 106-97-8)	Butane (CAS 106-97-8) TWA 1000 ppm					

Canada. Alberta OELs (Occupation Components	nal Health & Safety Code, Sch Type	Value
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	97 mg/m3
,		20 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
Safety Regulation 296/97, as amen	ded)	s for Chemical Substances, Occupational Health and
Components	Туре	Value
Butane (CAS 106-97-8)	STEL	750 ppm
	TWA	600 ppm
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	20 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
Canada. Manitoba OELs (Reg. 217	/2006, The Workplace Safety	
Components	Туре	Value
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	20 ppm
Canada. Ontario OELs. (Control of		• ,
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	800 ppm
Diethylene glycol monoethyl ether (CAS 111-90-0)	TWA	165 mg/m3 30 ppm
Ethanol, 2-butoxy- (CAS	TWA	
111-76-2)	TWA	20 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
Canada. Quebec OELs. (Ministry o Components	f Labor - Regulation Respect Type	ing the Quality of the Work Environment) Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3
		800 ppm
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	97 mg/m3
,		20 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3
		1000 ppm
US. OSHA Table Z-1 Limits for Air	•	•
Components	Туре	Value
Ethanol, 2-butoxy- (CAS 111-76-2)	PEL	240 mg/m3
····· <b>····</b> ,		50 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethanol, 2-butoxy- (CAS	TWA	20 ppm
111-76-2)		Ph
US. NIOSH: Pocket Guide to Chem		Value
Components Butane (CAS 106-97-8)	Type TWA	1900 mg/m3

Components	to Chemical Hazards Type		N	/alue
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA			24 mg/m3
·			Ę	5 ppm
Propane (CAS 74-98-6)	TWA			1800 mg/m3
			1	1000 ppm
US. AIHA Workplace Envi Components	ronmental Exposure Le Type			/alue
Diethylene glycol monoethy	/I TWA		1	140 mg/m3
ether (CAS 111-90-0)			2	25 ppm
ological limit values				
ACGIH Biological Exposu	re Indices			
Components	Value	Determinant	Specimen	Sampling Time
Ethanol, 2-butoxy- (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
* - For sampling details, ple	ase see the source docu	ument.		
posure guidelines				
US. NIOSH: Pocket Guide	to Chemical Hazards			
Ethanol, 2-butoxy- (CA US. OSHA Table Z-1 Limit	S 111-76-2)		e absorbed thro <b>)0)</b>	ough the skin.
Ethanol, 2-butoxy- (CA	S 111-76-2)	Can be	absorbed thro	ough the skin.
propriate engineering ntrols	should be matched or other engineering	to conditions. If ap controls to mainta	olicable, use p in airborne lev	r hour) should be used. Ventilation rates rocess enclosures, local exhaust ventilation rels below recommended exposure limits. I airborne levels to an acceptable level.
lividual protection measure				
Eye/face protection	Chemical splash go			
Skin protection				
•				
Hand protection	Wear protective glov	ves.		
-				
Hand protection Other Respiratory protection	Wear suitable prote	ctive clothing. ure self-contained		aratus (SCBA). Where exposure guideline spirator.
Other Respiratory protection	Wear suitable protective press Wear positive press levels may be exceed	ctive clothing. ure self-contained		
Other	Wear suitable protective press Wear positive press levels may be exceet Not applicable.	ctive clothing. ure self-contained eded, use an appro ce with good indus	ved NIOSH re trial hygiene ar	spirator.
Other Respiratory protection Thermal hazards neral hygiene	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physic</b>	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro al and Chemic	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefie	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro al and Chemic	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefier Gas.	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro al and Chemic	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefie Gas. Liquefied gas.	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro al and Chemic	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefied Gas. Liquefied gas. Clear	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro al and Chemic	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefied Gas. Liquefied gas. Clear Lemon lime	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro al and Chemic	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or threshold	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefie Gas. Liquefied gas. Clear Lemon lime Not available.	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro al and Chemic	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or or threshold	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefied Gas. Liquefied gas. Clear Lemon lime Not available. 12.3	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro al and Chemic	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or or threshold	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefied Gas. Liquefied gas. Clear Lemon lime Not available. 12.3 Not available.	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro <b>al and Chemic</b> ed gas	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or or threshold	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefie Gas. Liquefied gas. Clear Lemon lime Not available. 12.3 Not available. 32 - 401 °F (0 - 205	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro <b>al and Chemic</b> ed gas	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or or threshold	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefied Gas. Liquefied gas. Clear Lemon lime Not available. 12.3 Not available.	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro <b>al and Chemic</b> ed gas	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or or threshold dting point/freezing point tial boiling point and boiling nge	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefie Gas. Liquefied gas. Clear Lemon lime Not available. 12.3 Not available. 32 - 401 °F (0 - 205	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro <b>al and Chemic</b> ed gas	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or lor threshold liting point/freezing point tial boiling point and boiling nge ur point	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefie Gas. Liquefied gas. Clear Lemon lime Not available. 12.3 Not available. 32 - 401 °F (0 - 205 Not available.	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro <b>al and Chemic</b> ed gas	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or threshold lting point/freezing point tial boiling point and boiling nge ur point ecific gravity rtition coefficient	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefied Gas. Liquefied gas. Clear Lemon lime Not available. 12.3 Not available. 32 - 401 °F (0 - 205 Not available. Not available. Not available.	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro <b>al and Chemic</b> ed gas	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea
Other Respiratory protection Thermal hazards neral hygiene nsiderations pearance ysical state rm lor or threshold diting point/freezing point tial boiling point and boiling oge ur point ecific gravity rtition coefficient octanol/water)	Wear suitable protect Wear positive press levels may be exceed Not applicable. Handle in accordance and immediately after <b>9. Physica</b> Compressed liquefie Gas. Liquefied gas. Clear Lemon lime Not available. 12.3 Not available. 32 - 401 °F (0 - 205 Not available. Not available. Not available. Not available. Not available. Not available.	ctive clothing. ure self-contained eded, use an appro ce with good indus er handling the pro <b>al and Chemic</b> ed gas	ved NIOSH re trial hygiene ar duct.	spirator. nd safety practice. Wash hands before brea

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	65 psi @ 70°F		
Vapor density	Not available		
Relative density	Not available.		
Solubility(ies)	Not available		
Auto-ignition temperature	Not available		
Decomposition temperature	Not available.		
Viscosity	Not available.		
Other information			
Flash point class	Not Flammable as per testing under UN Manual of Tests and Criteria Part 3, Section 31.5		
	10. Stability and Reactivity		
Reactivity	Reacts vigorously with acids.		
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
Chemical stability	Material is stable under normal conditions.		
Conditions to avoid	Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals.		
Incompatible materials	Acids. Oxidizing agents.		

	Not corrosive to SAE 1020 Steel or non-clad Aluminum based on test data (UN Manual of Tests and Criteria, Part III, Section 37.1 -Corrosion to metals).
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.
producto	

11. Toxicological Informati	on

Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.				
Information on likely routes of exposure					
Ingestion	Expected to be a low ingestion hazard.				
Inhalation	Prolonged inhalation may be harmful.				
Skin contact	Not corrosive to skin based on in-vitro test data (OECD Guideline 435 - Corrositex®).				
Eye contact	Causes serious eye damage.				
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.				
Information on toxicological eff	ects				
Acute toxicity					
Components	Species	Test Results			
Butane (CAS 106-97-8)	Butane (CAS 106-97-8)				
Acute					
Inhalation					
LC50	Mouse	680 mg/L, 2 Hours			
	Rat 276000 ppm, 4 Hours				
		658 mg/l/4h			
Oral					
LD50	Not available				
Diethylene glycol monoethyl ether (CAS 111-90-0) Acute Dermal					
LD50	Guinea pig	5900 mg/kg			

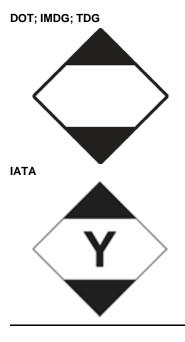
•			Tak Davaka
Compone	nts	Species Mouse	Test Results 6000 mg/kg
		Rabbit	6000 mg/kg
		Rat	6000 mg/kg
	nhalation C50		
		Rat	5240 mg/l/4h
	Dral		
L	D50	Guinea pig	3000 mg/kg
		Rabbit	3620 mg/kg
		Rat	5500 mg/kg
			1920 mg/kg
	-butoxy- (CAS 111-76-2)		
	cute		
	Dermal D50	Guinea pig	207 mg/kg
	200	Rabbit	400 mg/kg
		Kabbit	220 mg/kg
			99 mg/kg
		Rat	
l.	abolation	Rai	99 mg/kg
	nhalation C50	Mouse	700 ppm, 7 Hours
-		Rat	450 ppm, 4 Hours
			2.2 mg/L, 4 Hours
C	Dral		2.2 mg/L, 4 nouis
	D50	Guinea pig	1200 mg/kg
		Mouse	1200 mg/kg
		Rabbit	320 mg/kg
		Rat	470 mg/kg
Propane ((	CAS 74-98-6)		
	icute		
Ir	nhalation		
L	C50	Rat	> 1442.8 mg/L, 15 Minutes
	Dral		
	D50	Not available	
	etasilicate (CAS 6834-92-	0)	
	A <b>cute</b> Dermal		
	D50	Not available	
Ir	nhalation		
L	C50	Not available	
	Dral		
LI	D50	Mouse	2400 mg/kg
		Rat	1153 mg/kg
	im ethylenediamine tetraa <b>cute</b>	cetate (CAS 64-02-8)	
	Dermal		
	D50	Not available	
	nhalation	Net available	
	C50	Not available	
	Dral D50	Rat	1658 mg/kg

Skin corrosion/irritation	Not corrosive to skin based or	in-vitro test data (OECD Guideline 435 - Corrositex®).
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Canada - Alberta OELs: Irrita	ant	
Ethanol, 2-butoxy- (CAS	111-76-2)	Irritant
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to	
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, NTP, or OSHA.
ACGIH Carcinogens		
Ethanol, 2-butoxy- (CAS	111-76-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Canada - Manitoba OELs: ca		
2-BUTOXYETHANOL (EC IARC Monographs. Overall E	GBE) (CAS 111-76-2) Evaluation of Carcinogenicity	Confirmed animal carcinogen with unknown relevance to humans.
Ethanol, 2-butoxy- (CAS US. OSHA Specifically Regu Not listed.	111-76-2) lated Substances (29 CFR 191	Volume 88 - 3 Not classifiable as to carcinogenicity to humans. 0.1001-1050)
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.
Teratogenicity	Not available.	
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	ne product.
Chronic effects	Prolonged inhalation may be h	narmful.
	12 Ecologia	al Information

## 12. Ecological Information

Ecotoxicity	See below		
Ecotoxicological d Components	ata	Species	Test Results
Diethylene glycol monoethyl ether (CAS 111-90-0)			
Crustacea	EC50	Daphnia	4305 mg/L, 48 Hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10000 mg/L, 96 hours
Ethanol, 2-butoxy- (	CAS 111-76-2)		
Crustacea	EC50	Daphnia	1819 mg/L, 48 Hours
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/L, 96 hours
Sodium metasilicate	(CAS 6834-92-0)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	0.28 - 0.57 mg/L, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	1800 mg/L, 96 hours
Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)			
Algae	EC50	Algae	1.01 mg/L, 72 Hours

Components		Species	Test Results	
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	610 mg/L, 24 hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/L, 96 hours	
			<b>3</b>	
Persistence and degradability		vailable on the degradability of this produ		
Bioaccumulative potential		No data available.		
Mobility in soil	No data avai			
Mobility in general	Not available			
Other adverse effects	ts 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	Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Local disposal regulations	Dispose in a	ccordance 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	Since emptie		iste handling site for recycling or disposal. , follow label warnings even after container is	
		14. Transport Information		
Transport of Dangerous Goods (TDG) Proof of Classification		e with Part 2.2.1 (SOR/2014-152) of the we certify that the classification of this p	Transportation of Dangerous Goods roduct is correct as of the SDS date of issue.	
U.S. Department of Transportat	ion (DOT)			
Basic shipping requiremen	ts:			
UN number	UN1950			
Proper shipping name	Aerosols, no	n-flammable, (each not exceeding 1 L ca	apacity)	
Hazard class	Limited Quar	ntity - US		
Packaging exceptions		306		
Packaging non bulk Packaging bulk	None None			
Transportation of Dangerous G		anada)		
Basic shipping requiremen	-			
UN number	UN1950			
Proper shipping name		, non-flammable		
Hazard class	Limited Quar	ntity - Canada		
Special provisions	80			
IATA/ICAO (Air)				
Basic shipping requiremen	ts:			
UN number	UN1950			
Proper shipping name Hazard class	Aerosols, no Limited Quar			
ERG code	2L			
IMDG (Marine Transport) Basic shipping requiremen	te ·			
UN number	UN1950			
Proper shipping name	AEROSOLS			
Hazard class	Limited Quar			



## 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR. Canada CEPA Schedule I: Listed substance Ethanol, 2-butoxy- (CAS 111-76-2) Listed. Canada DSL Challenge Substances: Listed substance Butane (CAS 106-97-8) Listed. Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number Butane (CAS 106-97-8) **1 TONNES** Ethanol, 2-butoxy- (CAS 111-76-2) **1 TONNES** Propane (CAS 74-98-6) 1 TONNES Canada Priority Substances List (Second List): Listed substance Ethanol, 2-butoxy- (CAS 111-76-2) Listed. Export Control List (CEPA 1999, Schedule 3) Not listed. **Greenhouse Gases** Not listed. **Precursor Control Regulations** Not regulated. WHMIS 2015 Exemptions Not applicable This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Butane (CAS 106-97-8) Listed. Diethylene glycol monoethyl ether (CAS 111-90-0) Listed. Ethanol, 2-butoxy- (CAS 111-76-2) Listed. Propane (CAS 74-98-6) Listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes Hazard categories Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No SARA 302 Extremely No hazardous substance SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)		
	CAS number	% by wt.
Diethylene glycol monoethyl ether Ethanol, 2-butoxy-	111-90-0 111-76-2	1-5 1-5
Other federal regulations		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants	(HAPs) List	
Diethylene glycol monoethyl ether (CAS 111-90-0)		
Clean Air Act (CAA) Section 112(r) Accidental Release Pre	evention (40 CFR	68.130)
Butane (CAS 106-97-8) Propane (CAS 74-98-6)		
Clean Water Act (CWA)Hazardous substanceSection 112(r) (40 CFR68.130)		
US state regulations		
US - California Hazardous Substances (Director's): Listed	substance	
Butane (CAS 106-97-8) Ethanol, 2-butoxy- (CAS 111-76-2) US - Illinois Chemical Safety Act: Listed substance	Listed. Listed.	
Butane (CAS 106-97-8) Diethylene glycol monoethyl ether (CAS 111-90-0) Ethanol, 2-butoxy- (CAS 111-76-2)		
Propane (CAS 74-98-6) US - Louisiana Spill Reporting: Listed substance		
Butane (CAS 106-97-8)	Listed.	
Diethylene glycol monoethyl ether (CAS 111-90-0)	Listed.	
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed.	
Propane (CAS 74-98-6) US - Minnesota Haz Subs: Listed substance	Listed.	
Butane (CAS 106-97-8)	Listed.	
Diethylene glycol monoethyl ether (CAS 111-90-0)	Listed.	
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed.	
Propane (CAS 74-98-6) US - New Jersey RTK - Substances: Listed substance	Listed.	
Butane (CAS 106-97-8)		
Diethylene glycol monoethyl ether (CAS 111-90-0)		
Ethanol, 2-butoxy- (CAS 111-76-2)		
Propane (CAS 74-98-6)		
US - Texas Effects Screening Levels Hazard Data: Simple	asphyxiant	
Propane (CAS 74-98-6) US - Texas Effects Screening Levels: Listed substance		
Butane (CAS 106-97-8)	Listed.	
Diethylene glycol monoethyl ether (CAS 111-90-0)	Listed.	
Ethanol, 2-butoxy- (CAS 111-76-2)	Listed.	
Propane (CAS 74-98-6)	Listed.	
Sodium metasilicate (CAS 6834-92-0) Tetrasodium ethylenediamine tetraacetate (CAS 64-02-8)	Listed.	
US. Massachusetts RTK - Substance List	LISIEU.	
Butane (CAS 106-97-8)		
Ethanol, 2-butoxy- (CAS 111-76-2) Propane (CAS 74-98-6)		
US. New Jersey Worker and Community Right-to-Know Ac	ct i i i i i i i i i i i i i i i i i i i	
Butane (CAS 106-97-8)		
Diethylene glycol monoethyl ether (CAS 111-90-0) Ethanol, 2-butoxy- (CAS 111-76-2) Propane (CAS 74-98-6)		
US. Pennsylvania Worker and Community Right-to-Know	Law	
Butane (CAS 106-97-8)		
Diethylene glycol monoethyl ether (CAS 111-90-0) Ethanol, 2-butoxy- (CAS 111-76-2)		
Propane (CAS 74-98-6) US. Rhode Island RTK		
Butane (CAS 106-97-8)		
Diethylene glycol monoethyl ether (CAS 111-90-0) Ethanol, 2-butoxy- (CAS 111-76-2) Propane (CAS 74-98-6)		
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#### 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.

### Inventory status

Country(s) or region	Inventory name d	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compor	nents of this product comply with the inventory requirements administered by the govern	ing country(s)

LEGEND	HEALTH / 2
Severe 4	FLAMMABILITY 1
Serious 3	
Moderate 2	PHYSICAL HAZARD 0
Slight 1	PERSONAL
Minimal 0	PROTECTION
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
Issue date	10-June-2016
Version #	01
Effective date	10-June-2016
Prepared by	Nu-Calgon Technical Service Phone: (314) 469-7000
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

## 16. Other Information