

# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Product identifier</b>	<b>A/C EasySeal (4050-06, 4050-01, 4050-02, 4050-10)</b>
<b>Other means of identification</b>	Not available
<b>Recommended use</b>	Leak Sealant for refrigeration and AC systems
<b>Recommended restrictions</b>	None known.
<b>Manufacturer</b>	Nu-Calgon 2008 Altom Court St. Louis, MO 63146 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)

## 2. Hazards Identification

<b>Physical hazards</b>	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging fertility or the unborn child.

<b>Precautionary statement</b>	
<b>Prevention</b>	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. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area.
<b>Response</b>	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical advice/attention.
<b>Storage</b>	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Store locked up. Keep container tightly closed.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	Not applicable.

### 3. Composition/Information on Ingredients

#### Mixture

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	15-40
Propane		74-98-6	15-40
Triethoxy(vinyl)silane		78-08-0	10-30
Benzene, C14-30-alkyl derivatives		68855-24-3	5-10
Ethanol		64-17-5	5-10
Toluene		108-88-3	0.1-1

**Composition comments** US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

### 4. First Aid Measures

<b>Inhalation</b>	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
<b>Skin contact</b>	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
<b>Eye contact</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Do not puncture or incinerate container. Do not store at temperatures above 49°C. Keep away from sources of ignition. No smoking.

### 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Carbon dioxide (CO2). Dry chemical. Foam. Water Fog.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out. Firefighters should wear a self-contained breathing apparatus.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.
<b>General fire hazards</b>	Extremely flammable aerosol.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available.
<b>Sensitivity to static discharge</b>	Not available.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing gas. 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.
<b>Methods and materials for containment and cleaning up</b>	Refer to attached safety data sheets and/or instructions for use. Extinguish all flames in the vicinity. This product is miscible in water. Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Dike far ahead of spill for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. 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.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Use only with adequate ventilation. Avoid breathing mist or vapor. Avoid contact during pregnancy/while nursing. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Pressurized container: Do not pierce or burn, even after use.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. Protect from sunlight. 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). Keep out of reach of children. Keep away from heat, open flames or other sources of ignition. Do not expose to temperatures exceeding 122°F (50°C).

## 8. Exposure Controls/Personal Protection

### Occupational exposure limits

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

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m3 150 ppm

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
	TWA	375 mg/m <sup>3</sup> 100 ppm

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

\* - For sampling details, please see the source document.

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

**Individual protection measures, such as personal protective equipment**

- Eye/face protection** Wear safety glasses with side shields (or goggles).
- Skin protection**
- Hand protection** Rubber gloves. Confirm with a reputable supplier first.
- Other** Wear appropriate chemical resistant clothing. As required by employer code.
- Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA). Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- Thermal hazards** Not applicable.

**General hygiene considerations** When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product. 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. When using do not eat or drink.

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**9. Physical and Chemical Properties**

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<b>Appearance</b>	Compressed liquefied gas.
<b>Physical state</b>	Gas.
<b>Form</b>	Liquefied gas. Aerosol
<b>Color</b>	Colorless
<b>Odor</b>	Amine
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	143 °F (61.67 °C)
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	9.1
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Flash point</b>	132.2 °F (55.7 °C) Tag Closed Cup
<b>Evaporation rate</b>	< 1
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available
<b>Flammability limit - upper (%)</b>	Not available
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	116.63 hPa
<b>Vapor density</b>	> 1 (Air=1)
<b>Relative density</b>	Not available.

<b>Solubility(ies)</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

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## 10. Stability and Reactivity

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<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals. Contact with incompatible materials. Aerosol containers are unstable at temperatures above 49°C (120.2°F).
<b>Incompatible materials</b>	Strong oxidizing agents. Nitrates. Fluorine. Chlorine. Acids. Caustics.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

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## 11. Toxicological Information

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<b>Routes of exposure</b>	Eye, Skin contact, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	Prolonged inhalation may be harmful. May cause irritation to the respiratory system.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** May cause respiratory irritation.

Components	Species	Test Results
Benzene, C14-30-alkyl derivatives (CAS 68855-24-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 7940 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	> 15800 mg/kg
Butane (CAS 106-97-8)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	680 mg/l, 2 Hours
	Rat	276000 ppm, 4 Hours
		658 mg/l/4h
<i>Oral</i>		
LD50	Not available	
Ethanol (CAS 64-17-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	31623 ppm, 4 Hours
		20000 ppm, 10 Hours
<i>Oral</i>		
LD50	Dog	5500 mg/kg

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
	Guinea pig	5600 mg/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg
Propane (CAS 74-98-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	> 1442.8 mg/l, 15 Minutes
<i>Oral</i>		
LD50	Not available	
Toluene (CAS 108-88-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12196 mg/kg
		12125 mg/kg
		8390 mg/kg
		14.1 ml/kg
<i>Inhalation</i>		
LC50	Mouse	7100 mg/l, 4 Hours
		5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		<= 28800 mg/m <sup>3</sup> , 4 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
		12.5 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5580 mg/kg
		636 mg/kg
Triethoxy(vinyl)silane (CAS 78-08-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	9100 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	Not applicable.	

<b>Germ cell mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>ACGIH Carcinogens</b>	
Toluene (CAS 108-88-3)	A4 Not classifiable as a human carcinogen.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Ethanol (CAS 64-17-5)	Volume 44, Volume 96, Volume 100E
Toluene (CAS 108-88-3)	Volume 96, Volume 100E Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Possible reproductive hazard. Suspected of damaging the unborn child.
<b>Teratogenicity</b>	Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects (effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were observed in the absence of maternal toxicity.
<b>Specific target organ toxicity - single exposure</b>	Respiratory tract irritation.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not likely, due to the form of the product.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.
<b>Further information</b>	Not available.
<b>Name of Toxicologically Synergistic Products</b>	Not available.

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## 12. Ecological Information

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<b>Ecotoxicity</b>	See below		
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
Ethanol (CAS 64-17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Algae	IC50	Algae	433 mg/L, 72 Hours
Crustacea	EC50	Daphnia	7.645 mg/L, 48 Hours
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.		
<b>Bioaccumulative potential</b>	No data available.		
<b>Mobility in soil</b>	No data available.		
<b>Mobility in general</b>	Not available.		
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

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## 13. Disposal Considerations

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<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations. Consult authorities before disposal. 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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>US RCRA Hazardous Waste U List: Reference</b>	
Toluene (CAS 108-88-3)	U220

**Waste from residues / unused products**

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

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

**Basic shipping requirements:**

UN number	UN1950
Proper shipping name	Aerosols, flammable, n.o.s.
Hazard class	Limited Quantity - US
Special provisions	N82
Packaging exceptions	306

### Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:**

UN number	UN1950
Proper shipping name	AEROSOLS, flammable
Hazard class	Limited Quantity - Canada
Special provisions	80

### IATA/ICAO (Air)

**Basic shipping requirements:**

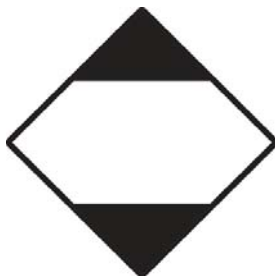
UN number	UN1950
Proper shipping name	Aerosols, flammable
Hazard class	Limited Quantity - IATA
ERG code	10L

### IMDG (Marine Transport)

**Basic shipping requirements:**

UN number	UN1950
Proper shipping name	AEROSOLS
Hazard class	Limited Quantity - US

### DOT; IMDG; TDG



### IATA



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## 15. Regulatory Information

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### Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

### Canada DSL Challenge Substances: Listed substance

Butane (CAS 106-97-8)	Listed.
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### Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Butane (CAS 106-97-8)	1 TONNES
Ethanol (CAS 64-17-5)	1 TONNES
Propane (CAS 74-98-6)	1 TONNES



Toluene (CAS 108-88-3) 1 TONNES

**Canada WHMIS Ingredient Disclosure: Threshold limits**

Butane (CAS 106-97-8) 1 %  
Ethanol (CAS 64-17-5) 0.1 %  
Toluene (CAS 108-88-3) 1 %

**WHMIS status** Controlled

**WHMIS classification** Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class D - Division 2A, 2B

**WHMIS labeling**



**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

Toluene (CAS 108-88-3) 1.0 %

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Toluene (CAS 108-88-3) Listed.

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

Not regulated.

**US CWA Section 311 Hazardous Substances: Listed substance**

Toluene (CAS 108-88-3) Listed.

**US CWA Section 307(a)(1) Toxic Pollutants: Listed substance**

Toluene (CAS 108-88-3) Listed.

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

Butane (CAS 106-97-8) Listed.

Propane (CAS 74-98-6) Listed.

Toluene (CAS 108-88-3) Listed.

**US CAA Section 111 Volatile Organic Compounds: Listed substance**

Ethanol (CAS 64-17-5) Listed.

Toluene (CAS 108-88-3) Listed.

**US CAA Section 112(r) Accidental Release Prevention - Regulated Flammable Substance: Listed substance**

Butane (CAS 106-97-8) Regulated flammable substance.

Propane (CAS 74-98-6) Regulated flammable substance.

**US CAA Section 112(r) Accidental Release Prevention: Threshold quantity**

Butane (CAS 106-97-8) 10000 LBS

Propane (CAS 74-98-6) 10000 LBS

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

Butane (CAS 106-97-8) Listed.

Propane (CAS 74-98-6) Listed.

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

Toluene (CAS 108-88-3) Listed.

**US CAA Section 612 SNAP Program: Listed substance**

Butane (CAS 106-97-8) Listed.

Propane (CAS 74-98-6) Listed.

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

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

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations**

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**US - California Hazardous Substances (Director's): Listed substance**

Butane (CAS 106-97-8) Listed.  
 Ethanol (CAS 64-17-5) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Ethanol (CAS 64-17-5) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US - Illinois Chemical Safety Act: Listed substance**

Butane (CAS 106-97-8) Listed.  
 Ethanol (CAS 64-17-5) Listed.  
 Propane (CAS 74-98-6) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US - Louisiana Spill Reporting: Listed substance**

Butane (CAS 106-97-8) Listed.  
 Ethanol (CAS 64-17-5) Listed.  
 Propane (CAS 74-98-6) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US - Michigan Critical Materials Register: Parameter number**

Toluene (CAS 108-88-3) 00108-88-3 Listed.

**US - Minnesota Haz Subs: Listed substance**

Butane (CAS 106-97-8) Listed.  
 Ethanol (CAS 64-17-5) Listed.  
 Propane (CAS 74-98-6) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US - New Jersey RTK - Substances: Listed substance**

Butane (CAS 106-97-8) Listed.  
 Ethanol (CAS 64-17-5) Listed.  
 Propane (CAS 74-98-6) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US - New York Release Reporting: Hazardous Substances: Listed substance**

Toluene (CAS 108-88-3) Listed.

**US - North Carolina Toxic Air Pollutants: Listed substance**

Toluene (CAS 108-88-3) Listed.

**US - Texas Effects Screening Levels: Listed substance**

Benzene, C14-30-alkyl derivatives (CAS 68855-24-3) Listed.  
 Butane (CAS 106-97-8) Listed.  
 Ethanol (CAS 64-17-5) Listed.  
 Propane (CAS 74-98-6) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US - Washington Chemical of High Concern to Children: Listed substance**

Toluene (CAS 108-88-3) Listed.

**US. Massachusetts RTK - Substance List**

Butane (CAS 106-97-8) Listed.  
 Ethanol (CAS 64-17-5) Listed.  
 Propane (CAS 74-98-6) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US. Pennsylvania RTK - Hazardous Substances**

Butane (CAS 106-97-8) Listed.  
 Ethanol (CAS 64-17-5) Listed.  
 Propane (CAS 74-98-6) Listed.  
 Toluene (CAS 108-88-3) Listed.

**US. Rhode Island RTK**

Butane (CAS 106-97-8) Listed.  
 Propane (CAS 74-98-6) Listed.  
 Toluene (CAS 108-88-3) Listed.

**Inventory status**

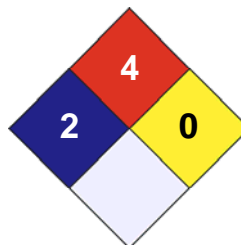
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/	2
FLAMMABILITY		4
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X



### 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

12-January-2015

### Effective date

01-January-2015

### Expiry date

01-January-2018

### Further information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

### Prepared by

Nu-Calgon Technical Service Phone: (314) 469-7000

### Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.