SAFETY DATA SHEET

1. Product and Company Identification

Product identifier **Pump Protector 4299-T8**

Other means of identification Not available

Recommended use Protectant

Recommended restrictions None known.

Manufacturer

Nu-Calgon
2611 Schuetz Road
St. Louis, MO 63043 US
Phone: 314-469-7000 / 800-554-5499 Emergency Phone:
1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Physical hazards	Flammable aerosols	Category 2
	Gases under pressure	Liquefied gas
Health hazards	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements

Signal word Danger

Hazard statement

Flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye damage.

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. Wear eye/face protection.

Response 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.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information 53% of the mixture consists of component(s) of unknown acute inhalation toxicity. 17% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), solvent-dewaxed heavy paraffin		64742-65-0	10-30
Propane		74-98-6	10-30
Residual oils (Petroleum), solvent-dewaxed		64742-62-7	10-30
1,2-Propanediol		57-55-6	1-5
Alcohols, C12-14-secondary, ethoxylated		84133-50-6	1-5
Ethanol, 2,2'',2''''-nitrilotris-		102-71-6	1-5
Isobutane		75-28-5	1-5

Chemical name	Common name and synonyms	CAS number	%
Octadecanoic acid		57-11-4	1-5
Alcohols C12-14 ethoxylated		68439-50-9	0.1-1.5

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

Inhalation If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.

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. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Most important symptoms/effects, acute and delayed Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media Carbon dioxide. Dry chemical. Foam.

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. Cool containers with flooding quantities of water until well after fire is out.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

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 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.

General fire hazards Flammable aerosol.

Hazardous combustion products May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.

Explosion data

Sensitivity to mechanical impact Not available.

Sensitivity to static discharge Not available.

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. 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. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewers, basements or confined areas.
Environmental precautions	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

Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
Conditions for safe storage, including any incompatibilities	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. 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.

8. Exposure Controls/Personal Protection

Occupational exposure limits

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

Components	Type	Value	Form
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	PEL	5 mg/m3	Mist.
		2000 mg/m3 500 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)	TWA	5 mg/m3	
Isobutane (CAS 75-28-5)	STEL	1000 ppm	
Octadecanoic acid (CAS 57-11-4)	TWA	10 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3 800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm	

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
1,2-Propanediol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.
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	As required by employer code. Wear appropriate chemical resistant clothing.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
Thermal hazards	Not applicable.
General hygiene considerations	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. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance	Clear
Physical state	Gas.
Form	Foam Aerosol
Color	Colorless
Odor	Characteristic
Odor threshold	Not available.
pH	8.5 - 9.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
Pour point	Not available.
Specific gravity	0.96 - 1
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	30 - 40 psig @ 20°C
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	
Flammability	Flame Height: 13cm, Duration 4-5 seconds
Heat of combustion	Level 1
Percent volatile	95

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatible materials	Strong oxidizing agents. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.
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 effects

Acute toxicity

Components	Species	Test Results
1,2-Propanediol (CAS 57-55-6)		
Acute		
Dermal		
LD50	Rabbit	20800 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Dog	19000 mg/kg
	Guinea pig	184000 mg/kg
	Mouse	23900 mg/kg
	Rabbit	14800 mg/kg
	Rat	20000 mg/kg
Alcohols C12-14 ethoxylated (CAS 68439-50-9)		
Acute		
Dermal		
LD50	Rabbit	2700 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	9800 mg/kg
Alcohols, C12-14-secondary, ethoxylated (CAS 84133-50-6)		
Acute		
Dermal		
LD50	Rabbit	3177 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	3250 mg/kg

Components	Species	Test Results
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)		
Acute		
Dermal		
LD50	Rabbit	>= 5000 mg/kg
Inhalation		
LC50		
	Rat	2.2 mg/l/4h
Oral		
LD50	Rat	>= 5000 mg/kg
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)		
Acute		
Dermal		
LD50	Rabbit	>= 2000 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Guinea pig	2200 mg/kg
	Mouse	5846 mg/kg
	Rabbit	2200 mg/kg
	Rat	5530 mg/kg
Isobutane (CAS 75-28-5)		
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Rat	658 mg/l/4h
Oral		
LD50	Not available	
Octadecanoic acid (CAS 57-11-4)		
Acute		
Dermal		
LD50	Rabbit	5000 mg/kg
Inhalation		
LC50		
Oral		
LD50	Rat	5000 mg/kg
		4.6 g/kg
Other		
LD50	Mouse	23 mg/kg
	Rat	21.5 mg/kg
Propane (CAS 74-98-6)		
Acute		
Inhalation		
LC50	Rat	> 1442.8 mg/l, 15 Minutes
Oral		
LD50	Not available	
Residual oils (Petroleum), solvent-dewaxed (CAS 64742-62-7)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	> 2180 mg/m3, 4 hours

Components	Species	Test Results
		2 mg/l/4h
Oral		
LD50	Rat	> 5000 mg/kg

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

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

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity See below.
Contains < 3% (w/w) DMSO-extract

ACGIH Carcinogens

Octadecanoic acid (CAS 57-11-4)	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Volume 33, Supplement 7, Volume 100F 1 Carcinogenic to humans.
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)	Volume 77 - 3 Not classifiable as to carcinogenicity to humans.

US NTP Report on Carcinogens: Known carcinogen

Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Known To Be Human Carcinogen.

Reproductive toxicity Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

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 Prolonged inhalation may be harmful. May be harmful if absorbed through skin. Prolonged exposure may cause chronic effects.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Further information Not available.

Name of Toxicologically Synergistic Products Not available.

12. Ecological Information

Ecotoxicity See below

Components		Species	Test Results
1,2-Propanediol (CAS 57-55-6)			
Crustacea	EC50	Daphnia	10000 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours

Components		Species	Test Results
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)			
Crustacea	EC50	Daphnia	1000 mg/L, 48 Hours
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)			
Algae	IC50	Algae	216 mg/L, 72 Hours
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	10610 - 13010 mg/l, 96 hours
Residual oils (Petroleum), solvent-dewaxed (CAS 64742-62-7)			
Crustacea	EC50	Daphnia	1000 mg/L, 48 Hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Mobility in general Not available.

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 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 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).

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. Do not re-use empty containers.

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

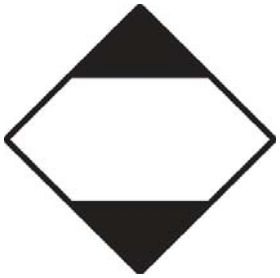
UN number UN1950
Proper shipping name Aerosols, flammable, (each not exceeding 1 L capacity)
Hazard class Limited Quantity - US
Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

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, 107
Packaging exceptions <1L - Limited Quantity

DOT; TDG



15. Regulatory Information

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

Isobutane (CAS 75-28-5)	Listed.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Isobutane (CAS 75-28-5)	1 TONNES
Propane (CAS 74-98-6)	1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

1,2-Propanediol (CAS 57-55-6)	1 %
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	1 %
Ethanol, 2,2",2""-nitrilotris- (CAS 102-71-6)	1 %
Octadecanoic acid (CAS 57-11-4)	1 %

WHMIS status Controlled

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

WHMIS labeling

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication 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)

Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

1,2-Propanediol (CAS 57-55-6)	Listed.

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

Isobutane (CAS 75-28-5)	Regulated flammable substance.
Propane (CAS 74-98-6)	Regulated flammable substance.

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

Isobutane (CAS 75-28-5)	10000 LBS
Propane (CAS 74-98-6)	10000 LBS

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

Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

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

Not regulated.

US CAA Section 612 SNAP Program: Listed substance

Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Listed.
Propane (CAS 74-98-6)	Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
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 This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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

Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Listed.

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

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US - Louisiana Spill Reporting: Listed substance

Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US - Minnesota Haz Subs: Listed substance

1,2-Propanediol (CAS 57-55-6)	Listed.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Listed.
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Octadecanoic acid (CAS 57-11-4)	Listed.
Propane (CAS 74-98-6)	Listed.

US - New Jersey RTK - Substances: Listed substance

1,2-Propanediol (CAS 57-55-6)	Listed.
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US - Texas Effects Screening Levels: Listed substance

1,2-Propanediol (CAS 57-55-6)	Listed.
Alcohols, C12-14-secondary, ethoxylated (CAS 84133-50-6)	Listed.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Listed.
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Octadecanoic acid (CAS 57-11-4)	Listed.
Propane (CAS 74-98-6)	Listed.
Residual oils (Petroleum), solvent-dewaxed (CAS 64742-62-7)	Listed.

US. Massachusetts RTK - Substance List

Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	Listed.
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US. Pennsylvania RTK - Hazardous Substances

1,2-Propanediol (CAS 57-55-6)	Listed.
Ethanol, 2,2'',2''''-nitrilotris- (CAS 102-71-6)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US. Rhode Island RTK

Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

Inventory status

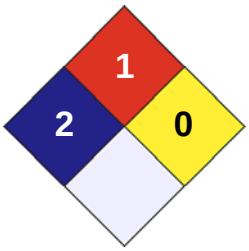
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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	1
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 01-June-2015

Effective date 01-June-2015

Expiry date 01-June-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 SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard. 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).