SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	**Pan-Spray (Black) (4296-51)**
Other means of identification	Not available
Recommended use	Coating
Recommended restrictions	None known.
Manufacturer information	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)
Supplier	See above.

2. Hazards Identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	

Label elements

Signal word	Danger
Hazard statement	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves, protective clothing and eye protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe gas. Use only outdoors or in a well-ventilated area.
Response	IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. 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 attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
Storage	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.
Disposal	Dispose of container in accordance with local, regional, national and international regulations.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
2-Propanol, 1-methoxy-, acetate		108-65-6	1 - 5*
Acetone		67-64-1	10-30*
Carbon black		1333-86-4	0.5-1.5*
Distillates (petroleum), light hydrotreated		64742-47-8	0.1-1*
Heptane		142-82-5	10 - 30*
Isopropanol		67-63-0	0.5 - 1.5*
Methane, oxybis-		115-10-6	10 - 30*
Methyl isobutyl ketone		108-10-1	0.1 - 1*
Petroleum gases, liquefied, sweetened		68476-86-8	10-30*
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite		68953-58-2	0.5-1.5*
Solvent naphtha (petroleum), medium aliphatic		64742-88-7	0.1-1*
Toluene		108-88-3	10 - 30*

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.
*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin contact IF ON SKIN: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

Eye contact 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 attention.

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause drowsiness or dizziness. May cause redness and pain. Prolonged exposure may cause chronic effects.

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 exposed or concerned: Get medical advice/attention. 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. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media Foam. Carbon dioxide. Dry chemical. Foam.

Unsuitable extinguishing media Water. 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. Firefighters should wear a self-contained breathing apparatus.

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. 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.
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. 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.
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.
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	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. 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 breathe gas. Avoid contact during pregnancy/while nursing. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use good industrial hygiene practices in handling this material.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol. Store locked up. 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. 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

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	1800 mg/m3 750 ppm	
	TWA	1200 mg/m3 500 ppm	
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	200 mg/m3	Vapor.
Heptane (CAS 142-82-5)	STEL	2050 mg/m3 500 ppm	
	TWA	1640 mg/m3 400 ppm	
Isopropanol (CAS 67-63-0)	STEL	984 mg/m3	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
		400 ppm	
	TWA	492 mg/m3	
		200 ppm	
Methyl isobutyl ketone (CAS 108-10-1)	STEL	307 mg/m3	
		75 ppm	
	TWA	205 mg/m3	
		50 ppm	
Toluene (CAS 108-88-3)	TWA	188 mg/m3	
		50 ppm	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	STEL	75 ppm	
	TWA	50 ppm	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	200 mg/m3	Non-aerosol.
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Methane, oxybis- (CAS 115-10-6)	TWA	1000 ppm	
Methyl isobutyl ketone (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.
Toluene (CAS 108-88-3)	TWA	20 ppm	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Methyl isobutyl ketone (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Toluene (CAS 108-88-3)	TWA	20 ppm	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	TWA	270 mg/m3	
		50 ppm	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Methyl isobutyl ketone (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.
Toluene (CAS 108-88-3)	TWA	20 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m3
		1000 ppm
	TWA	1190 mg/m3
		500 ppm
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	1590 mg/m3
		400 ppm
Heptane (CAS 142-82-5)	STEL	2050 mg/m3
		500 ppm
	TWA	1640 mg/m3
		400 ppm
Isopropanol (CAS 67-63-0)	STEL	1230 mg/m3
		500 ppm
	TWA	983 mg/m3
		400 ppm
Methyl isobutyl ketone (CAS 108-10-1)	STEL	307 mg/m3
		75 ppm
	TWA	205 mg/m3
		50 ppm
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	1590 mg/m3
		400 ppm
Toluene (CAS 108-88-3)	TWA	188 mg/m3
		50 ppm

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

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3
		1000 ppm

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

Components	Type	Value
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	PEL	400 mg/m3
		100 ppm
Heptane (CAS 142-82-5)	PEL	2000 mg/m3
		500 ppm
Isopropanol (CAS 67-63-0)	PEL	980 mg/m3
		400 ppm
Methyl isobutyl ketone (CAS 108-10-1)	PEL	410 mg/m3
		100 ppm
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	PEL	400 mg/m3
		100 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	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Methyl isobutyl ketone (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.
Toluene (CAS 108-88-3)	TWA	20 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	590 mg/m3
		250 ppm
Carbon black (CAS 1333-86-4)	TWA	0.1 mg/m3
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	100 mg/m3
Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3
		440 ppm
	TWA	350 mg/m3
		85 ppm
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm
Methyl isobutyl ketone (CAS 108-10-1)	STEL	300 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
		75 ppm
	TWA	205 mg/m3
		50 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m3
		150 ppm
	TWA	375 mg/m3
		100 ppm

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	TWA	50 ppm
Methane, oxybis- (CAS 115-10-6)	TWA	1880 mg/m3
		1000 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/L	Acetone	Urine	*
Isopropanol (CAS 67-63-0)	40 mg/L	Acetone	Urine	*
Methyl isobutyl ketone (CAS 108-10-1)	1 mg/L	Methyl isobutyl ketone	Urine	*
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.

Exposure guidelines Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

Canada - Alberta OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Toluene (CAS 108-88-3)	Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.

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	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
Thermal hazards	Not applicable.
General hygiene considerations	When using, do not eat, drink or 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	Spray
Physical state	Gas.
Form	Aerosol
Color	Black
Odor	Solvent
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	Not available.
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	55 - 65 psig
Vapor density	Not available.
Relative density	0.81 - 0.85
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
VOC (Weight %)	70.67

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	Oxidizers.

Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

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

Information on likely routes of exposure

Ingestion	May cause stomach distress, nausea or vomiting.
Inhalation	Prolonged inhalation may be harmful. May cause damage to organs by inhalation. Narcotic effects.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity Narcotic effects.

Components	**Species**	**Test Results**
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5320 ppm, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
		> 14.1 ml
		8532 mg/kg
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours, ECHA
		> 9.4 ml/kg, 24 Hours, ECHA
	Rabbit	> 15800 mg/kg, 24 Hours, ECHA
		> 7426 mg/kg, 24 Hours, ECHA
		> 20 ml/kg, 24 Hours, ECHA
		> 9.4 ml/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	55700 ppm, 3 Hours, ECHA
		50100 mg/m3, 8 hours, American Industrial Hygiene Association Journal
		132 mg/L, 3 Hours, ECHA
		76 mg/L, 4 Hours, ECHA/HSDB
		50.1 mg/L, 4 Hours, ECHA
		50.1 mg/L, 8 Hours
Oral		
LD50	Mouse	3000 mg/kg, Pharmaceutical Chemistry Journal
	Rat	5800 mg/kg, Journal of Toxicology and Environmental Health
		9.1 ml/kg, ECHA
		8.5 ml/kg, ECHA
		5.6 ml/kg, ECHA

Components	Species	Test Results
		2.2 ml/kg, ECHA
Carbon black (CAS 1333-86-4)		
Acute		
Dermal		
LD50	Rabbit	> 3000 mg/kg
Inhalation		
LC50	Not available	
Oral		
LD50	Rat	> 15400 mg/kg
		> 10000 mg/kg, ECHA
		> 8000 mg/kg, ECHA/HSDB
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)		
Acute		
Dermal		
LD50	Rabbit	> 4000 mg/kg, 24 Hours, ECHA
		> 2000 mg/kg
		> 2000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Cat	> 6.4 mg/L, 6 Hours, ECHA
	Rat	> 7.5 mg/L, 6 Hours, ECHA
		> 6 mg/L, 4 Hours, ECHA
		> 5.7 mg/L, 4 Hours, ECHA
		> 5.3 mg/L, 4 Hours, ECHA
		> 5.3 mg/L, 4 Hours, ECHA
		> 5.2 mg/L, 4 Hours, ECHA
		> 4.6 mg/L, 4 Hours, ECHA
		> 4.5 mg/L, 4 Hours, ECHA
		> 4.3 mg/L, 4 Hours, ECHA
		> 0.1 mg/L, 8 Hours, ECHA
		5.2 mg/l/4h, LOLI
Oral		
LD50	Rat	> 20000 mg/kg, ECHA
		> 5000 mg/kg, LOLI
		> 25 ml/kg
Heptane (CAS 142-82-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours, HCHA
Inhalation		
LC50	Rat	> 73.5 mg/L, 4 Hours, ECHA
		> 29.3 mg/L, 4 Hours, ECHA
		103 mg/L, 4 Hours, HSDB
Oral		
LD50	Rat	> 5000 mg/kg, ECHA
Isopropanol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg, HSDB
		16.4 ml/kg, 24 Hours, ECHA

Components	Species	Test Results
Inhalation		
LC50	Rat	> 10000 ppm, 6 Hours, ECHA
		16970 mg/l/4h, HMIRA
Oral		
LD50	Dog	4797 mg/kg, HSDB
	Mouse	3600 mg/kg, HSDB
	Rabbit	5030 mg/kg, HSDB
		5 g/kg, HSDB
	Rat	5.8 g/kg, ECHA

Methane, oxybis- (CAS 115-10-6)

Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Mouse	386 ppm, 30 Minutes
	Rat	164000 ppm, 4 Hours, ECHA/HSDB
		308.5 mg/L, 4 Hours
Oral		
LD50	Not available	

Methyl isobutyl ketone (CAS 108-10-1)

Acute		
Dermal		
LD50	Rabbit	16000 mg/kg
Inhalation		
LC50	Rat	2000 - 4000 ppm, 4 Hours
		8.2 mg/L, 4 Hours
Oral		
LD50	Mouse	1200 mg/kg
	Rat	2080 mg/kg
		2.1 g/kg

Petroleum gases, liquefied, sweetened (CAS 68476-86-8)

Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Mouse	539600 ppm, 120 Minutes, ECHA
		520400 ppm, 120 Minutes, ECHA
		1237 mg/L, 120 Minutes, ECHA
		57 %, 120 Minutes, ECHA
		52 %, 120 Minutes, ECHA
	Rat	> 800000 ppm, 10 Minutes, ECHA
		1442738 mg/m3, 10 Minutes, ECHA
		1354944 mg/m3, 10 Minutes, ECHA
		570000 ppm, 10 Minutes, ECHA
		1443 mg/L, 10 Minutes, ECHA
		1355 mg/L, 10 Minutes, ECHA
Oral		
LD50	Not available	

Components	Species	Test Results
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite (CAS 68953-58-2)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, BYK Additives Inc.
Inhalation		
LC50	Rat	> 200 mg/L, BYK Additives Inc.
		12.6 mg/l/4h, SCBT
Oral		
LD50	Rat	5000 mg/kg, SCBT
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)		
Acute		
Dermal		
LD50	Rabbit	> 4000 mg/kg, 24 Hours
		> 2000 mg/kg
		> 2000 mg/kg, 24 Hours
		3000 mg/kg, NIOSH
Inhalation		
LC50	Cat	> 6.4 mg/L, 6 Hours
	Rat	> 7.5 mg/L, 6 Hours
		> 6 mg/L, 4 Hours, ECHA
		> 5.7 mg/L, 4 Hours, ECHA
		> 5.3 mg/L, 4 Hours, ECHA
		> 5.3 mg/L, 4 Hours, ECHA
		> 5.2 mg/L, 4 Hours, ECHA
		> 4.6 mg/L, 4 Hours, ECHA
		> 4.5 mg/L, 4 Hours, ECHA
		> 4.3 mg/L, 4 Hours
		> 0.1 mg/L, 8 Hours
		5.3 mg/l/4h, NIOSH
Oral		
LD50	Rat	> 20000 mg/kg
		> 5000 mg/kg, NIOSH
		> 25 ml/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours, ECHA
		12124 mg/kg, HSDB
		14.1 ml/kg, HSDB
Inhalation		
LC50	Mouse	6405 - 7436 ppm, 6 Hours, ECHA
		5320 ppm, 8 Hours, ECHA/HSDB
		400 ppm, 24 Hours, HSDB
	Rat	26700 ppm, 1 Hours, HSDB
		12200 ppm, 2 Hours, HSDB
		8000 ppm, 4 Hours, HSDB
		5879 - 6281 ppm, 6 Hours, ECHA
		30 mg/L, 4 Hours, ECHA
		28.1 mg/L, 4 Hours, ECHA

Components	Species	Test Results
		25.7 mg/L, 4 Hours, ECHA
Oral		
LD50	Rat	> 5000 mg/kg, ECHA
		5580 mg/kg, ECHA
		2.6 g/kg, HSDB

Skin corrosion/irritation Causes skin irritation.

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not available.

Serious eye damage/eye irritation Causes serious eye irritation.

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.

Mutagenicity Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Suspected of causing cancer.

ACGIH Carcinogens

Carbon black (CAS 1333-86-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Crystalline silica (CAS 14808-60-7)	A2 Suspected human carcinogen.
Methyl isobutyl ketone (CAS 108-10-1)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	A3 Confirmed animal carcinogen with unknown relevance to humans.

Canada - Alberta OELs: Carcinogen category

Crystalline silica (CAS 14808-60-7)	Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

CARBON BLACK, INHALABLE FRACTION (CAS 1333-86-4)	Confirmed animal carcinogen with unknown relevance to humans.
KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR (CAS 64742-88-7)	Confirmed animal carcinogen with unknown relevance to humans.
METHYL ISOBUTYL KETONE (CAS 108-10-1)	Confirmed animal carcinogen with unknown relevance to humans.
SILICA, CRYSTALLINE-.ALPHA.-QUARTZ, RESPIRABLE FRACTION (CAS 14808-60-7)	Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

Crystalline silica (CAS 14808-60-7)	Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)	Volume 65, Volume 93 - 2B Possibly carcinogenic to humans.
Crystalline silica (CAS 14808-60-7)	Volume 68, Volume 100C 1 Carcinogenic to humans.
Methyl isobutyl ketone (CAS 108-10-1)	Volume 101 - 2B Possibly carcinogenic to humans.
Toluene (CAS 108-88-3)	Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (CAS 1333-86-4)
Methyl isobutyl ketone (CAS 108-10-1)

US NTP Report on Carcinogens: Known carcinogen

Crystalline silica (CAS 14808-60-7)	Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Crystalline silica (CAS 14808-60-7)	Cancer

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Teratogenicity 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.

Specific target organ toxicity - single exposure	Narcotic effects.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not likely, due to the form of the product.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Causes damage to organs through prolonged or repeated exposure.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)			
Crustacea	EC50	Daphnia	500 mg/L, 48 Hours
Acetone (CAS 67-64-1)			
Crustacea	EC50	Daphnia	13999 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/L, 96 hours
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/L, 96 hours
Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/L, 96 hours
Isopropanol (CAS 67-63-0)			
Algae	IC50	Algae	1000 mg/L, 72 Hours
Crustacea	EC50	Daphnia	13299 mg/L, 48 Hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/L, 96 hours
Methyl isobutyl ketone (CAS 108-10-1)			
Crustacea	EC50	Daphnia	170 mg/L, 48 Hours
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	492 - 593 mg/L, 96 hours
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)			
Crustacea	EC50	Daphnia	100 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/L, 96 hours
			8.8 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
Aquatic			
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

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	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

Transport of Dangerous Goods (TDG) Proof of Classification	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

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

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

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

IATA/ICAO (Air)

Basic shipping requirements:

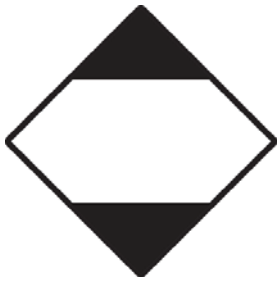
UN number	UN1950
Proper shipping name	Aerosols, flammable
Hazard class	Limited Quantity - IATA

IMDG (Marine Transport)

Basic shipping requirements:

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

DOT; IMDG; TDG



IATA

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada DSL Challenge Substances: Listed substance

Carbon black (CAS 1333-86-4)	Listed.
Crystalline silica (CAS 14808-60-7)	Listed.

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

2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	1 TONNES
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	1 TONNES
Heptane (CAS 142-82-5)	1 TONNES
Isopropanol (CAS 67-63-0)	1 TONNES
Methane, oxybis- (CAS 115-10-6)	1 TONNES
Methyl isobutyl ketone (CAS 108-10-1)	1 TONNES
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	1 TONNES
Toluene (CAS 108-88-3)	1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Acetone (CAS 67-64-1)	Class B
Toluene (CAS 108-88-3)	Class B

WHMIS 2015 Exemptions Not applicable

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)

All chemicals used are on the TSCA inventory.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1)	Listed.
Heptane (CAS 142-82-5)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methane, oxybis- (CAS 115-10-6)	Listed.
Methyl isobutyl ketone (CAS 108-10-1)	Listed.
Toluene (CAS 108-88-3)	Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Crystalline silica (CAS 14808-60-7)	Cancer lung effects immune system effects kidney effects

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)

Chemical name	CAS number	% by wt.
Toluene	108-88-3	10 - 30*

Other federal regulations

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

Methyl isobutyl ketone (CAS 108-10-1)
Toluene (CAS 108-88-3)

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

Methane, oxybis- (CAS 115-10-6)

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance Priority pollutant Toxic pollutant

US state regulations

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

Acetone (CAS 67-64-1)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Heptane (CAS 142-82-5)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methyl isobutyl ketone (CAS 108-10-1)	Listed.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Listed.
Toluene (CAS 108-88-3)	Listed.

US - Illinois Chemical Safety Act: Listed substance

Acetone (CAS 67-64-1)
Heptane (CAS 142-82-5)
Isopropanol (CAS 67-63-0)
Methane, oxybis- (CAS 115-10-6)
Methyl isobutyl ketone (CAS 108-10-1)
Toluene (CAS 108-88-3)

US - Louisiana Spill Reporting: Listed substance

Acetone (CAS 67-64-1)	Listed.
Heptane (CAS 142-82-5)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methane, oxybis- (CAS 115-10-6)	Listed.
Methyl isobutyl ketone (CAS 108-10-1)	Listed.
Toluene (CAS 108-88-3)	Listed.

US - Michigan Critical Materials Register: Parameter number

Toluene (CAS 108-88-3)	Listed.

US - Minnesota Haz Subs: Listed substance

Acetone (CAS 67-64-1)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Crystalline silica (CAS 14808-60-7)	Listed.
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Heptane (CAS 142-82-5)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methane, oxybis- (CAS 115-10-6)	Listed.
Methyl isobutyl ketone (CAS 108-10-1)	Listed.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Listed.
Toluene (CAS 108-88-3)	Listed.

US - New Jersey RTK - Substances: Listed substance

Acetone (CAS 67-64-1)
Carbon black (CAS 1333-86-4)
Crystalline silica (CAS 14808-60-7)
Heptane (CAS 142-82-5)
Isopropanol (CAS 67-63-0)
Methane, oxybis- (CAS 115-10-6)
Methyl isobutyl ketone (CAS 108-10-1)
Toluene (CAS 108-88-3)

US - North Carolina Toxic Air Pollutants: Listed substance

Methyl isobutyl ketone (CAS 108-10-1)
Toluene (CAS 108-88-3)

US - Texas Effects Screening Levels Hazard Data: Simple asphyxiant

Petroleum gases, liquefied, sweetened (CAS 68476-86-8)

US - Texas Effects Screening Levels: Listed substance

2-Propanol, 1-methoxy-, acetate (CAS 108-65-6)	Listed.
Acetone (CAS 67-64-1)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Crystalline silica (CAS 14808-60-7)	Listed.
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Heptane (CAS 142-82-5)	Listed.
Isopropanol (CAS 67-63-0)	Listed.
Methane, oxybis- (CAS 115-10-6)	Listed.
Methyl isobutyl ketone (CAS 108-10-1)	Listed.
Petroleum gases, liquefied, sweetened (CAS 68476-86-8)	Listed.
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite (CAS 68953-58-2)	Listed.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Listed.
Toluene (CAS 108-88-3)	Listed.

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

Toluene (CAS 108-88-3)

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)
Carbon black (CAS 1333-86-4)
Crystalline silica (CAS 14808-60-7)
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)
Heptane (CAS 142-82-5)
Isopropanol (CAS 67-63-0)
Methane, oxybis- (CAS 115-10-6)
Methyl isobutyl ketone (CAS 108-10-1)
Toluene (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)
Isopropanol (CAS 67-63-0)
Methane, oxybis- (CAS 115-10-6)
Methyl isobutyl ketone (CAS 108-10-1)
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)
Toluene (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)
Carbon black (CAS 1333-86-4)
Crystalline silica (CAS 14808-60-7)
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)
Heptane (CAS 142-82-5)
Isopropanol (CAS 67-63-0)
Methane, oxybis- (CAS 115-10-6)
Methyl isobutyl ketone (CAS 108-10-1)
Toluene (CAS 108-88-3)

US. Rhode Island RTK

Acetone (CAS 67-64-1)
Carbon black (CAS 1333-86-4)
Crystalline silica (CAS 14808-60-7)
Heptane (CAS 142-82-5)
Isopropanol (CAS 67-63-0)
Methane, oxybis- (CAS 115-10-6)
Methyl isobutyl ketone (CAS 108-10-1)
Toluene (CAS 108-88-3)

US. California Proposition 65

WARNING: This product can expose you to chemicals including Methyl isobutyl ketone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (CAS 1333-86-4)	Listed: February 21, 2003
Methyl isobutyl ketone (CAS 108-10-1)	Listed: November 4, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methyl isobutyl ketone (CAS 108-10-1)	Listed: March 28, 2014

Toluene (CAS 108-88-3) Listed: January 1, 1991

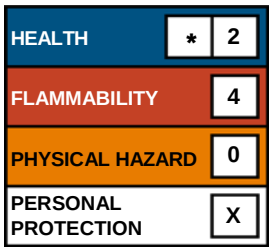
Inventory status

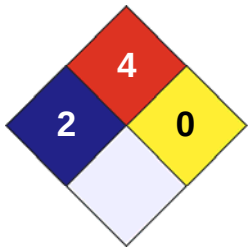
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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





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 24-October-2018

Version # 01

Effective date 24-October-2018

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.