SAFETY DATA SHEET



1. Identification

Product identifier Spray-n-Bond LV (4369-85)

Other means of identification Not available.

Recommended use Adhesive.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Nu-Calgon

Address 2611 Schuetz Road

St. Louis, MO 63043

United States

Telephone 314-469-7000 / 800-554-5499

E-mail Not available.

Emergency phone number 1-800-424-9300 (CHEMTREC)

Supplier See above.

2. Hazard identification

Physical hazards Flammable aerosols Category 1

Gases under pressure

Simple asphyxiants

Category 1

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2

Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements

Health hazards



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May displace

oxygen and cause rapid suffocation. Causes skin irritation. Causes serious eye irritation. May

cause an allergic skin reaction. May cause drowsiness or dizziness.

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, eye protection and face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid

breathing gas. Use only outdoors or in a well-ventilated area.

Response IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse. Specific treatment (see information on 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 attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor if you feel unwell.

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

well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

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WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

Hazard(s) not otherwise classified (HNOC)

None known.

None known

Supplemental information

None.

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- 3	$(: \cap m)$	aneitinr	ı/Int∩rn	าลtเกท	on inc	redients
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ixture			
Chemical name	Common name and synonyms	CAS number	%
1,3-butadiene, 2-methyl-, Homopolymer, Maleated		841251-34-1	1-5*
Acetone		67-64-1	10-30*
Benzene, 1-chloro-4(trifluoromethyl)-		98-56-6	1-5*
Butane		106-97-8	10-30*
Heptane		142-82-5	1-5*
Heptane, Branched, Cyclic And Linear		426260-76-6	5-10*
Methane, oxybis-		115-10-6	1-5*
Methyl acetate		79-20-9	5-10*
Naphtha (petroleum), hydrotreated light		64742-49-0	5-10*
Propane		74-98-6	10-30*
Solvent naphtha (petroleum), light aliphatic		64742-89-8	5-10*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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. If skin irritation or rash occurs: Get medical attention. Take

off contaminated clothing and wash it before reuse. Specific treatment (see information on this

label).

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 Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to

reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing.

Obtain medical attention.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

If you feel unwell, seek medical advice (show the label where possible). 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. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting measures

Do not use water jet as an extinguisher, as this will spread the fire.

Suitable extinguishing media Unsuitable extinguishing Carbon dioxide. Alcohol resistant foam. Dry chemical powder.

media

Specific hazards arising from

the chemical

Contents under pressure. Static charges generated by emptying package in or near flammable vapor may cause flash fire. Pressurized container may explode when exposed to heat or flame.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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. 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

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

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 people away from and upwind of spill/leak. Keep out of low areas. 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. Avoid breathing gas. Emergency personnel need self-contained breathing equipment. 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

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

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. Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Do not smoke while using or until sprayed surface is thoroughly dry. 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 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 breathing gas. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture, incinerate or crush. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. 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	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1800 mg/m3 750 ppm	
	TWA	1200 mg/m3 500 ppm	
Butane (CAS 106-97-8)	TWA	1000 ppm	
Heptane (CAS 142-82-5)	STEL	2050 mg/m3 500 ppm	
	TWA	1640 mg/m3 400 ppm	
Methyl acetate (CAS 79-20-9)	STEL	757 mg/m3	

Components	Туре	Value
		250 ppm
	TWA	606 mg/m3 200 ppm
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3
,		400 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)	TWA	1590 mg/m3
(400 ppm
Canada. British Columbia OELs. Safety Regulation 296/97, as ame		s for Chemical Substances, Occupational Health and
Components	Type	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Heptane (CAS 142-82-5)	STEL	500 ppm

400 ppm

1000 ppm

250 ppm

200 ppm

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

Methane, oxybis- (CAS

Methyl acetate (CAS

115-10-6)

79-20-9)

ounded: Maintoba OLLS (Reg. 217/2000; The Workplace Oulety And Health Act)				
Components	Туре	Value		
Acetone (CAS 67-64-1)	STEL	500 ppm		
	TWA	250 ppm		
Butane (CAS 106-97-8)	STEL	1000 ppm		
Heptane (CAS 142-82-5)	STEL	500 ppm		
	TWA	400 ppm		
Methyl acetate (CAS 79-20-9)	STEL	250 ppm		
	TWA	200 ppm		

TWA

TWA

STEL

TWA

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

Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
Methyl acetate (CAS 79-20-9)	STEL	250 ppm
	TWA	200 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Guildad. Quodoo OLLO: (IIIIIIIoti y Oi Labor	regulation respecting escapation	Rogalation roopcotting occupational mount and carety)		
Components	Туре	Value		
Acetone (CAS 67-64-1)	STEL	2380 mg/m3 1000 ppm		
	TWA	1190 mg/m3 500 ppm		

Canada. Quebec OELs. (Ministry Components	of Labor - Regulation respecting Type	g occupational nealth and safety) Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm	
Heptane (CAS 142-82-5)	STEL	2050 mg/m3 500 ppm	
	TWA	1640 mg/m3 400 ppm	
Methyl acetate (CAS 79-20-9)	STEL	757 mg/m3	
	TWA	250 ppm 606 mg/m3 200 ppm	
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3	
Propane (CAS 74-98-6)	TWA	400 ppm 1800 mg/m3 1000 ppm	
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)	TWA	1590 mg/m3	
(0/10/07/12/00/0)		400 ppm	
Canada. Saskatchewan OELs (Occomponents	cupational Health and Safety R Type	egulations, 1996, Table 21) Value	
Acetone (CAS 67-64-1)	15 minute	750 ppm	
	8 hour	500 ppm	
Butane (CAS 106-97-8)	15 minute	1250 ppm	
	8 hour	1000 ppm	
Heptane (CAS 142-82-5)	15 minute	500 ppm	
	8 hour	400 ppm	
Methyl acetate (CAS 79-20-9)	15 minute	250 ppm	
	8 hour	200 ppm	
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	15 minute	500 ppm	
	8 hour	400 ppm	
Propane (CAS 74-98-6)	15 minute	1250 ppm	
	8 hour	1000 ppm	
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)	15 minute	500 ppm	
	8 hour	400 ppm	
US. OSHA Table Z-1 Limits for Air Components	r Contaminants (29 CFR 1910.10 Type	000) Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm	
Heptane (CAS 142-82-5)	PEL	2000 mg/m3 500 ppm	
Methyl acetate (CAS 79-20-9)	PEL	610 mg/m3	
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	PEL	200 ppm 400 mg/m3	
Propane (CAS 74-98-6)	PEL	100 ppm 1800 mg/m3 1000 ppm	

US. OSHA Table Z-1 Limits Components	T	уре		alue	
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)		PEL	4	00 mg/m3	
(OAO 04742-03-0)			1	00 ppm	
US. ACGIH Threshold Limit	Values				
Components		ype	V	alue	
Acetone (CAS 67-64-1)	S	STEL	5	00 ppm	
	Т	WA	2	50 ppm	
Butane (CAS 106-97-8)	S	STEL	1	000 ppm	
Heptane (CAS 142-82-5)	S	STEL	5	00 ppm	
	Т	WA	4	00 ppm	
Methyl acetate (CAS 79-20-9)	S	STEL	2	50 ppm	
	Т	·WA	2	00 ppm	
US. NIOSH: Pocket Guide to	Chemical Haza	ds			
Components	T	уре	V	alue	
Acetone (CAS 67-64-1)	Т	WA		90 mg/m3 50 ppm	
Butane (CAS 106-97-8)	Т	WA		900 mg/m3 00 ppm	
Heptane (CAS 142-82-5)	C	Ceiling		800 mg/m3 40 ppm	
	Т	WA .	3	50 mg/m3 5 ppm	
Methyl acetate (CAS 79-20-9)	S	STEL		60 mg/m3	
,			2	50 ppm	
	Т	WA		10 mg/m3 00 ppm	
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	Т	WA	4	00 mg/m3	
· · · · · · · · · · · · · · · · · · ·			1	00 ppm	
Propane (CAS 74-98-6)	T	WA .		800 mg/m3 000 ppm	
Solvent naphtha (petroleum), light aliphatic	Т	WA	4	00 mg/m3	
(CAS 64742-89-8)			1	00 ppm	
IIO Wanton to a F	Ant Francis	LONGEL \ O : :		~~ kh	
US. Workplace Environmen Components		rel (WEEL) Guides Type	V	alue	
Methane, oxybis- (CAS		WA		880 mg/m3	
115-10-6)		-		J	
			1	000 ppm	
ogical limit values					
ACGIH Biological Exposure Components	Indices /alue	Determinant	Specimen	Sampling Time	
	25 mg/L	Acetone	Urine	*	
. 13313110 (0/10 0/-04-1)	.5g/ L	, 10010110	O.IIIO		

Exp

Canada - Alberta OELs: Skin designation

Benzene (CAS 71-43-2) Naphthalene (CAS 91-20-3) Toluene (CAS 108-88-3)

Can be absorbed through the skin. Can be absorbed through the skin. Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin. Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Benzene (CAS 71-43-2)

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Benzene (CAS 71-43-2)

Can be absorbed through the skin.

Naphthalene (CAS 91-20-3)

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

Naphthalene (CAS 91-20-3)

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2)

Can be absorbed through the skin.

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

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

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Appropriate engineering controls

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 Impervious gloves. Confirm with reputable supplier first.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. 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),

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

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. Contaminated work clothing should not be allowed out of the workplace. When using do not eat or drink.

9. Physical and chemical properties

AppearanceClearPhysical stateGas.FormSpray

ColorNot available.OdorNot available.Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.

Initial boiling point and boiling

range

152.69 °F (67.05 °C) (estimated)

Pour point Not available.

Specific gravity 0.884 (estimated)

Partition coefficient Not available.

(n-octanol/water)

-156.0 °F (-104.4 °C) (Propellant) (estimated)

Evaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or explosive limits

Flammability limit - lower > 2.2 (estimated)

(%)

Flash point

Flammability limit - upper

(%)

< 11.4 (estimated)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 45 - 65 psig @ 70°F (estimated)

Vapor density

Relative density

Solubility(ies)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Not available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

Reactivity

This product may react with strong oxidizing agents.

Possibility of hazardous

No dangerous reaction known under conditions of normal use.

reactions

Chemical stability Material is stable under normal conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials

Hazardous decomposition products

Strong oxidizing agents. Nitrates. Fluorine. Chlorine. May include and are not limited to: Oxides of carbon.

11. Toxicological information

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

Information on likely routes of exposure

Ingestion May cause stomach distress, nausea or vomiting.

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Asphyxiation may bring

about unconsciousness without warning and so rapidly that victim may be unable to protect

themself. Rash.

Information on toxicological effects

Acute toxicity Narcotic effects. May cause an allergic skin reaction. asphyxia

Components Species Test Results

1,3-butadiene, 2-methyl-, Homopolymer, Maleated (CAS 841251-34-1)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Not available

Acetone (CAS 67-64-1)

Acute

Dermal

LD50 Rabbit > 15800 mg/kg, Health Canada (HSA)

Inhalation

LC50 Rat 76 mg/l/4h, Health Canada (HSA)

Components **Species Test Results** Oral LD50 Rat 5800 mg/kg, Health Canada (HSA) Benzene, 1-chloro-4(trifluoromethyl)- (CAS 98-56-6) **Acute** Dermal LD50 Rabbit 0.1 ml/kg, 24 Hours, ECHA Rat 1.1 - 1.4 ml/kg, ECHA 0.5 - 1 ml/kg, ECHA Inhalation LC50 Mouse 200 ppm, 4 Hours, ECHA 220 ppm, 4 Hours, ECHA Rat 33 mg/l/4h, HSDB Oral LD50 11500 mg/kg, HSDB Mouse Rat > 2000 mg/kg, ECHA 13000 mg/kg, HSDB 382 mg/kg, ECHA 1.4 ml/kg, ECHA Butane (CAS 106-97-8) **Acute** Dermal LD50 Not available Inhalation LC50 Mouse 539600 ppm, 120 Minutes, ECHA 520400 ppm, 120 Minutes, ECHA Rat > 800000 ppm, 10 Minutes, ECHA 1442738 mg/m3, 15 Minutes, ECHA 1443 mg/L, 15 Minutes, ECHA Oral LD50 Not available 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 > 5000 mg/kg, ECHA Rat Heptane, Branched, Cyclic And Linear (CAS 426260-76-6) Acute Dermal LD50 Not available Inhalation LC50 Not available Oral LD50 Not available Methane, oxybis- (CAS 115-10-6) Acute Dermal LD50 Not available

Components	Species	Test Results
Inhalation LC50	Rat	309018 mg/m³, 4 hours, ECHA 164000 ppm, 4 Hours, ECHA/HSDB 308.5 mg/L, 4 Hours, HSDB
Oral		000.0 mg/2, 11.0a.10, 11022
LD50	Not available	
Methyl acetate (CAS 79-20-9)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA
Inhalation LC50	Rat	16000 - 32000 ppm, 4 Hours, Smyth, Jr., H.F., et al. Range-finding toxicity data: list VI. American Industrial Hygiene Association Journal. Vol. 23 (1962). p. 95-107
<i>Oral</i> LD50	Rabbit	3705 mg/kg, Industrial Medicine and Surgery. (Northbrook, IL) V.18-42, 1949-73. For publisher information, see IOHSA5. (41,31,1972). [RTECS]
	Rat	6482 mg/kg, ECHA
Naphtha (petroleum), hydrotreat Acute	ted light (CAS 64742-49-0)	
Dermal LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
Inhalation LC50	Rat	> 5610 mg/m3, 4 Hours, ECHA
<i>Oral</i> LD50	Rat	> 5000 mg/kg, ECHA
Propane (CAS 74-98-6)		
Acute Dermal	Net evelleble	
LD50 Inhalation	Not available	
LC50	Rat	1442738 mg/m3, 15 Minutes, ECHA 1443 mg/L, 15 Minutes, ECHA
Oral		
LD50	Not available	
Solvent naphtha (petroleum), lig	ht aliphatic (CAS 64742-89-8)	
Dermal LD50	Rabbit	> 2000 mg/kg, ECHA
Inhalation LC50	Rat	> 5610 mg/m3, 4 Hours, ECHA
<i>Oral</i> LD50	Rat	> 5000 mg/kg, ECHA
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value Serious eye damage/eye irritation	Not available. 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 a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

MutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity See below.

Contains < 3% (w/w) DMSO-extract

ACGIH Carcinogens

Benzene (CAS 71-43-2) A1 Confirmed human carcinogen.

Ethylbenzene (CAS 100-41-4)

A3 Confirmed animal carcinogen with unknown relevance to

humans

Naphthalene (CAS 91-20-3)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2) Cumene (CAS 98-82-8) Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3)

Canada - Alberta OELs: Carcinogen category

Benzene (CAS 71-43-2) Confirmed human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Benzene (CAS 71-43-2) Confirmed human carcinogen.

Ethylbenzene (CAS 100-41-4)

Naphthalene (CAS 91-20-3)

Confirmed animal carcinogen with unknown relevance to humans.

Confirmed animal carcinogen with unknown relevance to humans.

Canada - Quebec OELs: Carcinogen category

Benzene (CAS 71-43-2) Detected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene (CAS 71-43-2) Volume 29, Supplement 7, Volume 100F, Volume 120 - 1

Carcinogenic to humans.

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

Naphthalene (CAS 91-20-3)

Volume 101 - 2B Possibly carcinogenic to humans.

Volume 77 - 2B Possibly carcinogenic to humans.

Volume 82 - 2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3) Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to

humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Benzene (CAS 71-43-2) Cancer

US NTP Report on Carcinogens: Anticipated carcinogen

Cumene (CAS 98-82-8)

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

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US NTP Report on Carcinogens: Known carcinogen

Benzene (CAS 71-43-2) Known To Be Human Carcinogen. Naphthalene (CAS 91-20-3) Known To Be Human Carcinogen.

Reproductive toxicity Not classified.

Teratogenicity Not available.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity - Not classified

repeated exposure

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

Components Species Test Results

Acetone (CAS 67-64-1)

Crustacea EC50 Daphnia 13999 mg/L, 48 Hours

Components		Species	Test Results	
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	
Benzene, 1-chloro-4(trifluorometh	hyl)- (CAS 98-	56-6)		
Crustacea	EC50	Daphnia	3.68 mg/L, 48 Hours	
Heptane (CAS 142-82-5)				
Aquatic				
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/L, 96 hours	
Methyl acetate (CAS 79-20-9)				
Algae	IC50	Algae	120 mg/L, 72 hours	
Crustacea	EC50	Daphnia	1026.7 mg/L, 48 hours	
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas	s) 295 - 348 mg/L, 96 hours	
Naphtha (petroleum), hydrotreate Aquatic	ed light (CAS	64742-49-0)		
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	
Solvent naphtha (petroleum), ligh	nt aliphatic (C/	AS 64742-89-8)	•	
Algae	IC50	Algae	4700 mg/L, 72 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	
Persistence and degradability	No data is	available on the degradability of this produc	t.	
Bioaccumulative potential				
Mobility in soil	No data av	/ailable.		
Mobility in general	Not availa	ble.		
Other adverse effects		dverse environmental effects (e.g. ozone de endocrine disruption, global warming potentia		
		13. Disposal considerations		
Disposal instructions	under pres	d reclaim or dispose in sealed containers at lesure. Do not puncture, incinerate or crush. Eregional/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	product re	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container in emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.			
	·	14. Transport information		
Transport of Dangerous Goods (TDG) Proof of Classification	Dangerous	ion Method: Classified as per Part 2, Sections Goods Regulations. If applicable, the technil appear below.		

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number

Aerosols, flammable, (each not exceeding 1 L capacity) Proper shipping name

Limited Quantity - US **Hazard class Transportation of Dangerous Goods (TDG - Canada)**

Basic shipping requirements:

UN number

AEROSOLS, flammable Proper shipping name Limited Quantity - Canada **Hazard class**

IATA/ICAO (Air)

Basic shipping requirements:

UN1950 **UN** number

Proper shipping name Aerosols, flammable **Hazard class** Limited Quantity - IATA

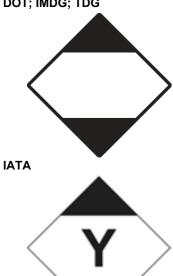
IMDG (Marine Transport)

Basic shipping requirements:

UN1950 **UN** number **AEROSOLS** Proper shipping name

Hazard class Limited Quantity - IMDG

DOT; IMDG; TDG



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 CEPA Schedule I: Listed substance

Benzene (CAS 71-43-2) Listed. Naphthalene (CAS 91-20-3) Listed.

Canada DSL Challenge Substances: Listed substance

Butane (CAS 106-97-8) Listed. Naphthalene (CAS 91-20-3) Listed.

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

Benzene (CAS 71-43-2) 1 TONNES Butane (CAS 106-97-8) 1 TONNES Heptane (CAS 142-82-5) 1 TONNES Methane, oxybis- (CAS 115-10-6) 1 TONNES Naphtha (petroleum), hydrotreated light (CAS 1 TONNES

64742-49-0)

Propane (CAS 74-98-6) 1 TONNES Solvent naphtha (petroleum), light aliphatic (CAS 1 TONNES

64742-89-8)

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)

Benzene, 1-chloro-4(trifluoromethyl)- (CAS 98-56-6) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) Listed. Benzene (CAS 71-43-2) Listed. Butane (CAS 106-97-8) Listed. Cumene (CAS 98-82-8) Listed. Ethylbenzene (CAS 100-41-4) Listed. Heptane (CAS 142-82-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Methyl acetate (CAS 79-20-9) Listed. Naphthalene (CAS 91-20-3) Listed. Propane (CAS 74-98-6) Listed. Toluene (CAS 108-88-3) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Benzene (CAS 71-43-2) Cancer

Central nervous system

Blood Aspiration Skin Eye

respiratory tract irritation

Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely No

hazardous substance

Classified hazard

SARA 311/312 Hazardous Yes

chemical

Flammable (gases, aerosols, liquids, or solids)

categories Gas under pressure

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

Simple asphyxiant

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Solvent naphtha (petroleum), light aliphatic64742-89-85-10*

Other federal regulations

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

Benzene (CAS 71-43-2) Cumene (CAS 98-82-8) Ethylbenzene (CAS 100-41-4) Naphthalene (CAS 91-20-3) Toluene (CAS 108-88-3)

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

Butane (CAS 106-97-8)

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

Propane (CAS 74-98-6)

US state regulations See below

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

Acetone (CAS 67-64-1) Listed.
Benzene (CAS 71-43-2) Listed.
Butane (CAS 106-97-8) Listed.
Cumene (CAS 98-82-8) Listed.
Ethylbenzene (CAS 100-41-4) Listed.
Heptane (CAS 142-82-5) Listed.
Methyl acetate (CAS 79-20-9) Listed.

Naphtha (petroleum), hydrotreated light (CAS Listed. 64742-49-0) Naphthalene (CAS 91-20-3) Listed. Solvent naphtha (petroleum), light aliphatic (CAS Listed. 64742-89-8) Toluene (CAS 108-88-3) Listed. **US - Illinois Chemical Safety Act: Listed substance** Acetone (CAS 67-64-1) Benzene (CAS 71-43-2) Butane (CAS 106-97-8) Cumene (CAS 98-82-8) Ethylbenzene (CAS 100-41-4) Heptane (CAS 142-82-5) Methane, oxybis- (CAS 115-10-6) Methyl acetate (CAS 79-20-9) Naphthalene (CAS 91-20-3) Propane (CAS 74-98-6) Toluene (CAS 108-88-3) US - Louisiana Spill Reporting: Listed substance Acetone (CAS 67-64-1) Listed. Benzene (CAS 71-43-2) Listed. Butane (CAS 106-97-8) Listed. Cumene (CAS 98-82-8) Listed. Ethylbenzene (CAS 100-41-4) Listed. Heptane (CAS 142-82-5) Listed Listed. Methane, oxybis- (CAS 115-10-6) Methyl acetate (CAS 79-20-9) Listed. Naphthalene (CAS 91-20-3) Listed. Propane (CAS 74-98-6) Listed. Toluene (CAS 108-88-3) Listed. **US - Michigan Critical Materials Register: Parameter number** Benzene (CAS 71-43-2) Toluene (CAS 108-88-3) **US - Minnesota Haz Subs: Listed substance** Acetone (CAS 67-64-1) Listed. Benzene (CAS 71-43-2) Listed. Butane (CAS 106-97-8) Listed. Cumene (CAS 98-82-8) Listed. Ethylbenzene (CAS 100-41-4) Listed. Heptane (CAS 142-82-5) Listed. Methane, oxybis- (CAS 115-10-6) Listed. Methyl acetate (CAS 79-20-9) Listed. Naphtha (petroleum), hydrotreated light (CAS Listed. 64742-49-0) Naphthalene (CAS 91-20-3) Listed. Propane (CAS 74-98-6) Listed. Solvent naphtha (petroleum), light aliphatic (CAS Listed. 64742-89-8) Toluene (CAS 108-88-3) Listed. **US - North Carolina Toxic Air Pollutants: Listed substance** Benzene (CAS 71-43-2) Toluene (CAS 108-88-3) US - Texas Effects Screening Levels Hazard Data: Simple asphyxiant Propane (CAS 74-98-6) **US - Texas Effects Screening Levels: Listed substance** Acetone (CAS 67-64-1) Listed. Benzene (CAS 71-43-2) Listed. Benzene, 1-chloro-4(trifluoromethyl)- (CAS 98-56-6) Listed. Butane (CAS 106-97-8) Listed. Cumene (CAS 98-82-8) Listed. Ethylbenzene (CAS 100-41-4) Listed. Heptane (CAS 142-82-5) Listed. Heptane, Branched, Cyclic And Linear (CAS Listed. 426260-76-6) Methane, oxybis- (CAS 115-10-6) Listed.

Methyl acetate (CAS 79-20-9)

64742-49-0)

Naphtha (petroleum), hydrotreated light (CAS

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Listed.

Listed.

Naphthalene (CAS 91-20-3) Listed. Propane (CAS 74-98-6) Listed. Solvent naphtha (petroleum), light aliphatic (CAS Listed.

64742-89-8)

Toluene (CAS 108-88-3) Listed.

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

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Toluene (CAS 108-88-3)

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Benzene (CAS 71-43-2)

Butane (CAS 106-97-8)

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

Heptane (CAS 142-82-5)

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

Methyl acetate (CAS 79-20-9)

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

Naphthalene (CAS 91-20-3)

Propane (CAS 74-98-6)

Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)

Toluene (CAS 108-88-3)

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

Acetone (CAS 67-64-1)

Benzene (CAS 71-43-2)

Benzene, 1-chloro-4(trifluoromethyl)- (CAS 98-56-6)

Butane (CAS 106-97-8)

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

Heptane (CAS 142-82-5)

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

Methyl acetate (CAS 79-20-9)

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

Naphthalene (CAS 91-20-3)

Propane (CAS 74-98-6)

Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)

Toluene (CAS 108-88-3)

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

Acetone (CAS 67-64-1)

Benzene (CAS 71-43-2)

Butane (CAS 106-97-8)

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

Heptane (CAS 142-82-5)

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

Methyl acetate (CAS 79-20-9)

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

Naphthalene (CAS 91-20-3)

Propane (CAS 74-98-6)

Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)

Toluene (CAS 108-88-3)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Benzene (CAS 71-43-2)

Butane (CAS 106-97-8)

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

Heptane (CAS 142-82-5)

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

Methyl acetate (CAS 79-20-9)

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

Naphthalene (CAS 91-20-3)

Propane (CAS 74-98-6)

Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)

Toluene (CAS 108-88-3)

US. California Proposition 65



WARNING: This product can expose you to chemicals including Benzene, 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.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

 Benzene (CAS 71-43-2)
 Listed: February 27, 1987

 Cumene (CAS 98-82-8)
 Listed: April 6, 2010

 Ethylbenzene (CAS 100-41-4)
 Listed: June 11, 2004

 Naphthalene (CAS 91-20-3)
 Listed: April 19, 2002

California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997 Toluene (CAS 108-88-3) Listed: January 1, 1991

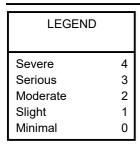
California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

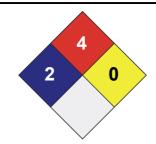
Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

16. Other information







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.

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Version # 03

Effective date 21-April-2020

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

Further information Not available.

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

document.

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