SAFETY DATA SHEET



1. Product and Company Identification

Product identifier Electrical Contact Cleaner (4082-03)

Other means of identification Not available Recommended use Cleaner None known. Recommended restrictions Nu-Calgon Manufacturer information

> 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

> Liquefied gas Gases under pressure Skin corrosion/irritation Category 2 Category 1B Germ cell mutagenicity Carcinogenicity Category 1B Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

Environmental hazards Not classified. WHMIS 2015 defined hazards

Label elements

Health hazards

Not classified



Signal word Danger

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

> swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. May cause genetic defects. Suspected of damaging fertility or the unborn child. May cause cancer.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors. Use only outdoors or in a well-ventilated

area.

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

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off

contaminated clothing and wash it before reuse.

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

CENTER or doctor if you feel unwell.

IF exposed or concerned: Get medical attention.

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)

WHMIS 2015: Physical Hazard(s) not otherwise

classified (PHNOC)

None known

None known

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None known.

Supplemental information

None.

3. Composition/Information on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
1,1-Difluoroethane		75-37-6	45-70*
Heptane		142-82-5	10-30*
Heptane, Branched, Cyclic And Linear		426260-76-6	10-30*
Naphtha (petroleum), hydrotreated light		64742-49-0	10-30*
Solvent naphtha (petroleum), light aliphatic		64742-89-8	10-30*

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

Composition comments

US GHS: The specific chemical identity and/or 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

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

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Skin contact

If skin irritation occurs: Get medical attention.

Eve contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical

attention if irritation persists.

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

irritation. Skin irritation. May cause redness and pain.

Most important symptoms/effects, acute and

delayed

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

Aspiration may cause pulmonary edema and pneumonitis. Dizziness. May cause respiratory

Indication of immediate medical attention and special treatment needed

General information

IF exposed or concerned: Get medical advice/attention. 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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

equipment/instructions

Specific methods

Dry chemical powder. Carbon dioxide. Foam.

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

the chemical Special protective equipment

and precautions for firefighters

Fire-fighting

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. 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.

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 SDS.

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. Prevent entry into waterways, sewer, basements or confined areas. 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. 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. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition.

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. Store away from incompatible materials (see Section 10 of the SDS). Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

Canada, Alberta OELs	(Occupational Health & Safet	v Code, Schedule 1, Table 2)
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Components	Туре	Value	
Heptane (CAS 142-82-5)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3	
•		400 ppm	
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)	TWA	1590 mg/m3	
/		400 ppm	

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

Components	Туре	Value
Heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm

Components	Туре	Value
Heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
	Exposure to Biological or Chemical	Agents)
Components	Туре	Value
Heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
Canada. Quebec OELs. (Ministry o Components	f Labor - Regulation Respecting the 0 Type	Quality of the Work Environment) Value
Heptane (CAS 142-82-5)	STEL	2050 mg/m3 500 ppm
	TWA	1640 mg/m3 400 ppm
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3
		400 ppm
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)	TWA	1590 mg/m3
		400 ppm
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.1000)	
Components	Туре	Value
Heptane (CAS 142-82-5)	PEL	2000 mg/m3
		500 ppm
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	PEL	400 mg/m3
·		100 ppm
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)	PEL	400 mg/m3
(,		100 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Heptane (CAS 142-82-5)	STEL	500 ppm
,	TWA	400 ppm
US. NIOSH: Pocket Guide to Chem	ical Hazards	
Components	Type	Value
Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3
,	-	440 ppm
	TWA	350 mg/m3
		85 ppm
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	400 mg/m3
		100 ppm
Solvent naphtha (petroleum), light aliphatic (CAS 64742-89-8)	TWA	400 mg/m3 100 ppm
		του ρριτι
US. AIHA Workplace Environmenta Components	al Exposure Level (WEEL) Guides Type	Value
1,1-Difluoroethane (CAS 75-37-6)	TWA	2700 mg/m3
• /		1000 ppm

Exposure guidelines

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)

Can be absorbed through the skin.

Naphthalene (CAS 91-20-3)

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)

Can be absorbed through the skin.

Toluene (CAS 108-88-3)

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

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

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 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),

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. When using do not eat or drink.

9. Physical and Chemical Properties

AppearanceClearPhysical stateGas.FormAerosolColorColorless

Odor Mild hydrocarbon
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Pour pointNot available.Specific gravityNot available.Partition coefficient
(n-octanol/water)Not available.

Flash point Not available.

Evaporation rate Not available.
Flammability (solid, gas) Not available.
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 Not available.

Vapor density Not available.

Vapor density

Relative density

Solubility(ies)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available.

Other information

Density 6.70505 lb/gal

Density VOC: 2.95054 lb/gal

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

VOC (Weight %) % VOC: 44.0048%

VOC Actual (g/l): 353.56300

10. Stability and Reactivity

Reactivity This product may react with strong oxidizing agents.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stabilityMaterial is stable under normal conditions.Conditions to avoidHeat. Contact with incompatible materials.Incompatible materialsStrong oxidizing agents. Reducing agents. Acids.

Hazardous decomposition

products

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 Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia. May cause stomach distress, nausea or vomiting.

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. Dizziness. May cause respiratory

irritation. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

Components Species Test Results

1,1-Difluoroethane (CAS 75-37-6)

Acute Inhalation

LC50 Rat > 437500 ppm, 4 Hours, ECHA

> 64000 ppm

Oral

LD50 Rat > 1500 mg/kg

Test Results Components **Species** 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 Heptane, Branched, Cyclic And Linear (CAS 426260-76-6) Acute Dermal LD50 Not available Inhalation LC50 Not available Oral LD50 Not available Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) Acute Dermal LD50 Guinea pig; Rabbit > 9.4 ml/kg, 24 Hours, ECHA Rabbit > 6000 mg/kg, 24 Hours, ECHA > 5000 mg/kg, 24 Hours, ECHA > 3750 mg/kg, 24 Hours, ECHA > 3000 mg/kg, 24 Hours, ECHA > 2000 mg/kg, ECHA > 2000 mg/kg, 24 Hours, ECHA > 1900 mg/kg, 24 Hours, ECHA Inhalation LC50 Rat > 8530 mg/m3, 4 Hours, ECHA > 7970 mg/m3, 4 Hours, ECHA > 7630 mg/m3, 4 Hours, ECHA > 7300 mg/m3, 4 Hours, ECHA > 5830 mg/m3, 4 Hours, ECHA > 5740 mg/m3, 4 Hours, ECHA > 5610 mg/m3, 4 Hours, ECHA > 5470 mg/m3, 4 Hours, ECHA > 5300 mg/m3, 4 Hours, ECHA > 5280 mg/m3, 4 Hours, ECHA > 5260 mg/m3, 4 Hours, ECHA > 5250 mg/m3, 4 Hours, ECHA > 5240 mg/m3, 4 Hours, ECHA > 5220 mg/m3, 4 Hours, ECHA > 5200 mg/m3, 4 Hours, ECHA > 5170 mg/m3, 4 Hours, ECHA > 5160 mg/m3, 4 Hours, ECHA > 5100 mg/m3, 4 Hours, ECHA > 5080 mg/m3, 4 Hours, ECHA

Components	Species	Test Results
Components	Opecies	> 5050 mg/m3, 4 Hours, ECHA
		> 5040 mg/m3, 4 Hours, ECHA
		> 5020 mg/m3, 4 Hours, ECHA
		> 5000 mg/m3, 4 Hours, ECHA
		> 4980 mg/m3, 4 Hours, ECHA
		> 4970 mg/m3, 4 Hours, ECHA
		> 4420 mg/m3, 4 Hours, ECHA
		> 5.4 mg/L, 4 Hours, ECHA
		> 5.1 mg/L, 4 Hours, ECHA
		> 5.1 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA
		43767 mg/m3, 4 Hours, ECHA
		13700 ppm, 4 Hours, ECHA
		>= 5060 mg/m3, 4 Hours, ECHA
		30 mg/L, 4 Hours, ECHA
		28.1 mg/L, 4 Hours, ECHA
		25.7 mg/L, 4 Hours, ECHA
<i>Oral</i> LD50	Rat	> 7000 mg/kg, ECHA
		> 6000 mg/kg, ECHA
		> 5570 mg/kg, ECHA
		> 5200 mg/kg, ECHA
		> 5000 mg/kg, ECHA
		> 4800 mg/kg, ECHA
		> 4500 mg/kg, ECHA
		> 2000 mg/kg, ECHA
		> 25 ml/kg
		14063 mg/kg, ECHA
		6620 mg/kg, ECHA
		5800 mg/kg, ECHA
		5580 mg/kg, ECHA
		5390 mg/kg, ECHA
		4820 mg/kg, ECHA
Solvent nanhtha (netro	eleum), light aliphatic (CAS 64742-89-8)	4020 Hg/kg, LOHA
Acute	neum), light aliphatic (CAS 04742-03-0)	
Dermal		
LD50	Rabbit	> 6000 mg/kg, 24 Hours, ECHA
		> 3750 mg/kg, 24 Hours, ECHA
		> 3000 mg/kg, 24 Hours, ECHA
		> 2000 mg/kg, ECHA
		> 2000 mg/kg, 24 Hours, ECHA
		> 1900 mg/kg, 24 Hours, ECHA
<i>Inhalation</i> LC50	Rat	> 8530 mg/m3, 4 Hours, ECHA
LOJU	Ναι	> 6530 mg/m3, 4 Hours, ECHA > 7970 mg/m3, 4 Hours, ECHA
		> 7970 mg/m3, 4 Hours, ECHA > 7630 mg/m3, 4 Hours, ECHA
		> 7030 Hig/III3, 4 Flouis, ECHA

Components	Species	Test Results
Components	Opecies	> 7300 mg/m3, 4 Hours, ECHA
		> 5830 mg/m3, 4 Hours, ECHA
		> 5740 mg/m3, 4 Hours, ECHA
		> 5610 mg/m3, 4 Hours, ECHA
		> 5470 mg/m3, 4 Hours, ECHA
		> 5300 mg/m3, 4 Hours, ECHA
		> 5280 mg/m3, 4 Hours, ECHA
		> 5260 mg/m3, 4 Hours, ECHA
		> 5250 mg/m3, 4 Hours, ECHA
		> 5240 mg/m3, 4 Hours, ECHA
		> 5220 mg/m3, 4 Hours, ECHA
		> 5200 mg/m3, 4 Hours, ECHA
		> 5170 mg/m3, 4 Hours, ECHA
		> 5160 mg/m3, 4 Hours, ECHA
		> 5100 mg/m3, 4 Hours, ECHA
		> 5080 mg/m3, 4 Hours, ECHA
		> 5050 mg/m3, 4 Hours, ECHA
		> 5040 mg/m3, 4 Hours, ECHA
		> 5020 mg/m3, 4 Hours, ECHA
		> 5000 mg/m3, 4 Hours, ECHA
		> 4980 mg/m3, 4 Hours, ECHA
		> 4970 mg/m3, 4 Hours, ECHA
		> 4420 mg/m3, 4 Hours, ECHA
		> 5.4 mg/L, 4 Hours, ECHA
		> 5.1 mg/L, 4 Hours, ECHA
		> 5.1 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA
		>= 5060 mg/m3, 4 Hours, ECHA
<i>Oral</i> LD50	Rat	> 7000 mg/kg, ECHA
2500	· Cat	> 6000 mg/kg, ECHA
		> 5570 mg/kg, ECHA
		> 5200 mg/kg, ECHA
		> 5000 mg/kg, ECHA
		> 4800 mg/kg, ECHA
		> 4500 mg/kg, ECHA
		> 25 ml/kg, HSDB
		14063 mg/kg, ECHA
		6620 mg/kg, ECHA
		5800 mg/kg, ECHA
		5390 mg/kg, ECHA
		4820 mg/kg, ECHA
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

ACGIH Carcinogens

Benzene (CAS 71-43-2)

A1 Confirmed human carcinogen.

Benzene, ethyl- (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.

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.

ETHYL BENZENE (CAS 100-41-4) Confirmed animal carcinogen with unknown relevance to humans.

NAPHTHALENE (CAS 91-20-3) 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 1 Carcinogenic to

humans.

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8)

Volume 77 - 2B Possibly carcinogenic to humans.

Volume 101 - 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

numans.

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

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

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.

Reasonably Anticipated to be a Human Carcinogen.

US NTP Report on Carcinogens: Known carcinogen

Benzene (CAS 71-43-2) Known To Be Human Carcinogen.

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

Benzene (CAS 71-43-2)

Cancer

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Teratogenicity Not available.

Specific target organ toxicity - Narcotic effects.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Ecotoxicological data Components **Species Test Results**

Heptane (CAS 142-82-5)

Aquatic

LC50 Mozambique tilapia (Tilapia 375 mg/L, 96 hours Fish

mossambica)

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

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/L, 48 hours

Rainbow trout.donaldson trout Fish LC50 8.8 mg/L, 96 hours

(Oncorhynchus mykiss)

8.8 mg/L, 96 hours

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

4700 mg/L, 72 Hours Algae IC50 Algae

Aquatic

EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/L, 48 hours Crustacea

LC50 Rainbow trout, donaldson trout 8.8 mg/L, 96 hours Fish

(Oncorhynchus mykiss)

No data is available on the degradability of this product.

8.8 mg/L, 96 hours

Persistence and degradability

Bioaccumulative potential

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

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

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

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

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

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.

IMDG Regulated Marine Pollutant.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN1950 **UN** number

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

Limited Quantity - US **Hazard class**

Special provisions N82

<1L - Limited Quantity Packaging exceptions

Packaging non bulk None Packaging bulk None

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN1950 **UN** number

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

Special provisions 80, 107 Packaging exceptions

<1L - Limited Quantity

IATA/ICAO (Air)

Basic shipping requirements:

UN1950 **UN** number

Proper shipping name Aerosols, flammable

Hazard class 2.1

IMDG (Marine Transport)

Basic shipping requirements:

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

Hazard class

DOT; TDG



IATA; IMDG



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

1,1-Difluoroethane (CAS 75-37-6) Listed. Benzene (CAS 71-43-2) Listed. Naphthalene (CAS 91-20-3) Listed.

Canada DSL Challenge Substances: Listed substance

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 Heptane (CAS 142-82-5) 1 TONNES Naphtha (petroleum), hydrotreated light (CAS 1 TONNES 64742-49-0)

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

1,1-Difluoroethane (CAS 75-37-6) **Precursor Control Regulations**

> 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)

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8)

Heptane (CAS 142-82-5)

Naphthalene (CAS 91-20-3)

Toluene (CAS 108-88-3)

Listed.

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

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)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Solvent naphtha (petroleum), light aliphatic	64742-89-8	10-30*	

Other federal regulations

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

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

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

1,1-Difluoroethane (CAS 75-37-6)

US state regulations

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

See below

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8)

Heptane (CAS 142-82-5)

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

Benzene (CAS 71-43-2) Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8) Heptane (CAS 142-82-5) Naphthalene (CAS 91-20-3) Toluene (CAS 108-88-3)

US - Louisiana Spill Reporting: Listed substance

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8)

Heptane (CAS 142-82-5)

Naphthalene (CAS 91-20-3)

Toluene (CAS 108-88-3)

Listed.

Listed.

Listed.

US - Michigan Critical Materials Register: Parameter number

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

US - Minnesota Haz Subs: Listed substance

Benzene (CAS 71-43-2) Listed. Benzene, ethyl- (CAS 100-41-4) Listed. Cumene (CAS 98-82-8) Listed. Heptane (CAS 142-82-5) 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 - New Jersey RTK - Substances: Listed substance

1,1-Difluoroethane (CAS 75-37-6)

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8) Heptane (CAS 142-82-5)

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

Naphthalene (CAS 91-20-3)

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

Toluene (CAS 108-88-3)

US - North Carolina Toxic Air Pollutants: Listed substance

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Benzene (CAS 71-43-2)

US - Texas Effects Screening Levels: Listed substance

1,1-Difluoroethane (CAS 75-37-6) Listed. Benzene (CAS 71-43-2) Listed. Benzene, ethyl- (CAS 100-41-4) Listed. Cumene (CAS 98-82-8) Listed. Heptane (CAS 142-82-5) Listed. Heptane, Branched, Cyclic And Linear (CAS Listed. 426260-76-6) 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 - Washington Chemical of High Concern to Children: Listed substance

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Toluene (CAS 108-88-3)

US. Massachusetts RTK - Substance List

1,1-Difluoroethane (CAS 75-37-6)

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8)

Heptane (CAS 142-82-5)

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

Naphthalene (CAS 91-20-3)

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

Toluene (CAS 108-88-3)

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

1,1-Difluoroethane (CAS 75-37-6)

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8)

Naphthalene (CAS 91-20-3)

Toluene (CAS 108-88-3)

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

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8)

Heptane (CAS 142-82-5)

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

Naphthalene (CAS 91-20-3)

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

Toluene (CAS 108-88-3)

US. Rhode Island RTK

Benzene (CAS 71-43-2)

Benzene, ethyl- (CAS 100-41-4)

Cumene (CAS 98-82-8) Heptane (CAS 142-82-5)

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

Naphthalene (CAS 91-20-3)

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.

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

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

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

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

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

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

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

Inventory status

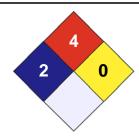
Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

16. Other Information







Disclaimer

Issue date

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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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.