SAFETY DATA SHEET



1. Product and Company Identification

Product identifier Degreasing Solvent EF (4083-75)

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

2008 Altom Court St. Louis, MO 63146 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 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2

exposure

Category 1 Aspiration hazard

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 be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause

drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage

to organs through prolonged or repeated exposure.

Precautionary statement

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevention

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/face protection. Do not breathe gas. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood.

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

IF ON SKIN: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice/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 advice/attention.

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

CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

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 contents/container in accordance with local/regional/national/international regulations.

WHMIS 2015: Health Hazard(s) not otherwise classified

(HHNOC)

None known

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

Hazard(s) not otherwise classified (HNOC)

None known

None known.

Supplemental information

None.

3. Composition/Information on Ingredient	formation on Ingredients	3. Composition/Ir
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Mixture			
Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	35-57
Naphtha (petroleum), hydrotreated light		64742-49-0	30-49
Carbon dioxide		124-38-9	3-6
Toluene		108-88-3	1.1-2
Heptane		142-82-5	0.0-0.8
Benzene		71-43-2	Trace
Xylene		1330-20-7	Trace

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

4. First Aid Measures

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

CENTER or doctor/physician 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 advice/attention. Take off contaminated clothing and wash it before

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present **Eve contact**

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce

Most important symptoms/effects, acute and

delayed

Ingestion

Indication of immediate medical attention and special treatment needed

General information

Aspiration may cause pulmonary edema and pneumonitis. 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. Prolonged exposure may cause chronic effects.

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

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

Dry chemical. Carbon dioxide. Foam.

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

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods

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

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. 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.

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.

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

Hazardous combustion

General fire hazards

products

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

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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. Do not breathe 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

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

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. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. 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. 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	
Benzene (CAS 71-43-2)	STEL	8 mg/m3 2.5 ppm	
	TWA	1.6 mg/m3 0.5 ppm	
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3 5000 ppm	
Heptane (CAS 142-82-5)	STEL	2050 mg/m3 500 ppm	
	TWA	1640 mg/m3 400 ppm	
Naphtha (petroleum), hydrotreated light (CAS	TWA	1590 mg/m3	
64742-49-0)		400 ppm	
Toluene (CAS 108-88-3)	TWA	188 mg/m3 50 ppm	

Components	Туре	Value
Xylene (CAS 1330-20-7)	STEL	651 mg/m3
		150 ppm
	TWA	434 mg/m3
		100 ppm

Canada. British Columbia OELs. (Occupa	tional Exposure Limits for Chemica	al Substances, Occupational Health and
Safety Regulation 296/97, as amended)		
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Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Carbon dioxide (CAS 124-38-9)	STEL	15000 ppm	
	TWA	5000 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

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

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

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

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m3 1000 ppm
	TWA	1190 mg/m3 500 ppm
Benzene (CAS 71-43-2)	STEL	15.5 mg/m3
		5 ppm
	TWA	3 mg/m3 1 ppm
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3
		30000 ppm
	TWA	9000 mg/m3 5000 ppm
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
Toluene (CAS 108-88-3)	TWA	188 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	STEL	651 mg/m3 150 ppm
	TWA	434 mg/m3 100 ppm
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US. USHA Specifically Regulated Subs	Stances (29 CFR 1910.1001	-1050)
US. OSHA Specifically Regulated Subs Components	Type	-1050) Value
Components	•	
Components	Туре	Value
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con	Type STEL TWA taminants (29 CFR 1910.10	Value 5 ppm 1 ppm 000)
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components	Type STEL TWA taminants (29 CFR 1910.10	Value 5 ppm 1 ppm Value Value
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con	Type STEL TWA taminants (29 CFR 1910.10	Value 5 ppm 1 ppm Value 2400 mg/m3
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1)	Type STEL TWA taminants (29 CFR 1910.10 Type PEL	Value 5 ppm 1 ppm Value 2400 mg/m3 1000 ppm
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS	Type STEL TWA taminants (29 CFR 1910.10	Value 5 ppm 1 ppm Value 2400 mg/m3
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS	Type STEL TWA taminants (29 CFR 1910.10 Type PEL	Value 5 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9)	Type STEL TWA taminants (29 CFR 1910.10 Type PEL	Value 5 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL	Value 5 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL	Value 5 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 5000 ppm
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL	Value 5 ppm 1 ppm 000) Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 5000 ppm 4000 mg/m3 1000 ppm 400 mg/m3
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) Xylene (CAS 1330-20-7)	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL PEL PEL PEL	Value 5 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 5000 ppm 400 mg/m3 1000 ppm
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL PEL PEL PEL	Value 5 ppm 1 ppm 000) Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 5000 ppm 4000 mg/m3 1000 ppm 400 mg/m3
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) Xylene (CAS 1330-20-7) US. OSHA Table Z-2 (29 CFR 1910.100)	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL PEL PEL PEL PEL PE	Value 5 ppm 1 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 5000 ppm 400 mg/m3 100 ppm 400 mg/m3
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) Xylene (CAS 1330-20-7) US. OSHA Table Z-2 (29 CFR 1910.100) Components	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL PEL PEL PEL PEL PTEL PEL PTEL PT	Value 5 ppm 1 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 500 ppm 400 mg/m3 100 ppm 400 mg/m3 Value Value
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) Xylene (CAS 1330-20-7) US. OSHA Table Z-2 (29 CFR 1910.100) Components	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL PEL PEL PEL PEL PEL Color Type Ceiling	Value 5 ppm 1 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 5000 ppm 400 mg/m3 500 ppm 400 mg/m3 Value Value 25 ppm
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) Xylene (CAS 1330-20-7) US. OSHA Table Z-2 (29 CFR 1910.100 Components Benzene (CAS 71-43-2)	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL PEL PEL PEL PEL Co) Type Ceiling TWA	Value 5 ppm 1 ppm 1 ppm Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 500 ppm 400 mg/m3 100 ppm 400 ppm 400 ppm 435 mg/m3 100 ppm Value 25 ppm 10 ppm
Components Benzene (CAS 71-43-2) US. OSHA Table Z-1 Limits for Air Con Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5) Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) Xylene (CAS 1330-20-7) US. OSHA Table Z-2 (29 CFR 1910.100 Components Benzene (CAS 71-43-2)	Type STEL TWA taminants (29 CFR 1910.10 Type PEL PEL PEL PEL PEL PEL PEL PEL Co) Type Ceiling TWA Ceiling	Value 5 ppm 1 ppm 000) Value 2400 mg/m3 1000 ppm 9000 mg/m3 5000 ppm 2000 mg/m3 5000 ppm 400 mg/m3 100 ppm 400 ppm 400 ppm 435 mg/m3 100 ppm Value 25 ppm 10 ppm 300 ppm

US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
	TWA	250 ppm	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm	
Benzene (CAS 71-43-2)	STEL	1 ppm	
	TWA	0.1 ppm	
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3 5000 ppm	
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	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	25 mg/L	Acetone	Urine	*	
Benzene (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine in 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	*	
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	

TWA

Exposure guidelines

Canada - Alberta OELs: Skin designation

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

Canada - British Columbia OELs: Skin designation

Benzene (CAS 71-43-2)

Canada - Manitoba OELs: Skin designation

Benzene (CAS 71-43-2)

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

150 ppm

375 mg/m3 100 ppm

Can be absorbed through the skin.

Can be absorbed through the skin.

^{* -} For sampling details, please see the source document.

Canada - Ontario OELs: Skin designation

Benzene (CAS 71-43-2)

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

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.

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.FormAerosol.ColorClear

Odor Sweet, Pungent
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 coefficientNot available.

(n-octanol/water)

Flash point

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

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.

Relative density

Solubility(ies)

Auto-ignition temperature

Not available.

Not available.

Not available.

Not available.

Not available.

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Viscosity Not available.

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

VOC (Weight %) 55.99551

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 stability Material is stable under normal conditions.

Conditions to avoid Heat. Do not mix with other chemicals.

Incompatible materials Acids. Strong oxidizing agents. Caustics. Reducing agents.

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

products

11. Toxicological Information

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

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 damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. 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.

Information on toxicological effects

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

Components Species Test Results

Acetone (CAS 67-64-1)

Acute

Dermal

LD50 Rabbit 15800 mg/kg

20 ml/kg

Inhalation

LC50 Mouse 44000 mg/m3/4H

Rat 76 mg/L, 4 Hours

50.1 mg/L, 8 Hours

39 mg/l/4h

Oral

LD50 Human 2857 mg/kg

 Mouse
 3000 mg/kg

 Rabbit
 5340 mg/kg

 Rat
 5800 mg/kg

Benzene (CAS 71-43-2)

Acute

Dermal

LD50 Guinea pig > 9400 mg/kg

Rabbit 8263 mg/kg 8260 mg/kg

Inhalation

LC50 Mouse 9980 ppm

Components **Species Test Results** Rat 44700 mg/m3, 4 Hours 13700 mg/l/4h 10000 ppm, 7 Hours Oral LD50 Mouse 4700 mg/kg Rat 2990 mg/kg 690 mg/kg Carbon dioxide (CAS 124-38-9) Acute Inhalation Not available LC50 Oral LD50 Not available Heptane (CAS 142-82-5) Acute Inhalation LC50 Rat 103 mg/L, 4 Hours LD50 Mouse 75 mg/L, 2 Hours Oral LD50 Rat 15000 mg/kg Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) Acute Dermal LD50 Rabbit 3160 mg/kg Inhalation Rat LC50 61 mg/L, 4 Hours 20 ppm 20 mg/l/4h Oral LD50 Rat > 25 ml/kg 5000 mg/kg Toluene (CAS 108-88-3) Acute Dermal Rabbit 12196 mg/kg LD50 12125 mg/kg 8390 mg/kg 14.1 ml/kg Inhalation LC50 Mouse 7100 mg/L, 4 Hours 5320 ppm, 8 Hours 400 ppm, 24 Hours Rat 26700 ppm, 1 Hours <= 28800 mg/m³, 4 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours 12.5 mg/l/4h Oral > 5580 mg/kg LD50 Rat 636 mg/kg

Test Results Components **Species** Xylene (CAS 1330-20-7) Acute Dermal LD50 Rabbit >= 1700 mg/kg Inhalation LC50 Mouse 3907 ppm, 6 Hours Rat 6350 ppm, 4 Hours 29.1 mg/L, 4 Hours 27.6 mg/L, 4 Hours 21.7 mg/L, 4 Hours Oral LD50 Mouse 5251 mL/kg 1590 mg/kg Rat 3523 - 8600 mg/kg Skin corrosion/irritation Causes skin irritation. **Exposure minutes** Not available. Erythema value Not available. Oedema value Not available. Causes serious eye irritation. Serious eye damage/eye irritation Corneal opacity value Not available. Iris lesion value Not available. Not available. Conjunctival reddening value Not available. Conjunctival oedema value Not available. Recover days Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization. Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. See below. Carcinogenicity **ACGIH Carcinogens** Benzene (CAS 71-43-2) A1 Confirmed human carcinogen. Canada - Alberta OELs: Carcinogen category Benzene (CAS 71-43-2) Confirmed human carcinogen. Canada - Manitoba OELs: carcinogenicity **ACETONE (CAS 67-64-1)** Not classifiable as a human carcinogen. **BENZENE (CAS 71-43-2)** Confirmed human carcinogen. **TOLUENE (CAS 108-88-3)** Not classifiable as a human carcinogen. XYLENE (O, M AND P ISOMERS) (CAS 1330-20-7) Not classifiable as a human carcinogen. 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. Toluene (CAS 108-88-3) Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans. Xylene (CAS 1330-20-7) Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans. US - California Proposition 65 - CRT: Listed date/Carcinogenic substance Benzene (CAS 71-43-2) **US NTP Report on Carcinogens: Known carcinogen**

Suspected of damaging fertility or the unborn child.

Cancer

Known To Be Human Carcinogen.

Benzene (CAS 71-43-2)

Benzene (CAS 71-43-2)

Reproductive toxicity

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

Teratogenicity Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects

May cause damage to organs through prolonged or repeated exposure.

(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

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May be fatal if swallowed and enters airways.

Aspiration hazard Chronic effects

Mobility in general

Other adverse effects

May cause damage to organs through prolonged or repeated exposure. 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
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 (CAS 71-43-2)			
Algae	IC50	Algae	29 mg/L, 72 Hours
Crustacea	EC50	Daphnia	12.18 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	7.2 - 11.7 mg/L, 96 hours
Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/L, 96 hours
Naphtha (petroleum), hydrotreat	ed light (CAS 64	742-49-0)	
Aquatic	5050	Materille (Deplesis miles)	0.7 5.4 40 h
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
Xylene (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/L, 96 hours
Persistence and degradability Bioaccumulative potential	No data is a	vailable on the degradability of this product.	
Mobility in soil	No data ava	ilable	

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

No data available.

Not available.

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.

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 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

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

General IMDG Regulated Marine Pollutant.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number

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

Hazard class Limited Quantity - US

Special provisions N82 Packaging exceptions 306 Packaging non bulk None Packaging bulk None

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1950

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

Special provisions 80, 107

IATA/ICAO (Air)

Basic shipping requirements:

UN number UN1950

Aerosols, flammable Proper shipping name

2.1 **Hazard class**

IMDG (Marine Transport)

Basic shipping requirements:

UN number UN1950 Proper shipping name **AEROSOLS**

Limited Quantity - IMDG **Hazard class**

Marine pollutant Yes

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)
Carbon dioxide (CAS 124-38-9)
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)

Toluene (CAS 108-88-3) 1 TONNES Xylene (CAS 1330-20-7) 1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Carbon dioxide (CAS 124-38-9)

Precursor Control Regulations

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

WHMIS 2015 Exemptions Not applicable

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

 Acetone (CAS 67-64-1)
 Listed.

 Benzene (CAS 71-43-2)
 Listed.

 Heptane (CAS 142-82-5)
 Listed.

 Toluene (CAS 108-88-3)
 Listed.

 Xylene (CAS 1330-20-7)
 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)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely N

hazardous substance

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Toluene108-88-31.1-2

Other federal regulations

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

Benzene (CAS 71-43-2) Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)

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

Not regulated.

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. Carbon dioxide (CAS 124-38-9) Listed. Heptane (CAS 142-82-5) Listed. Naphtha (petroleum), hydrotreated light (CAS Listed. 64742-49-0) Listed.

Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7) Listed.

US - Illinois Chemical Safety Act: Listed substance

Acetone (CAS 67-64-1) Benzene (CAS 71-43-2) Heptane (CAS 142-82-5) Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)

US - Louisiana Spill Reporting: Listed substance

Acetone (CAS 67-64-1) Listed. Benzene (CAS 71-43-2) Listed. Heptane (CAS 142-82-5) Listed. Toluene (CAS 108-88-3) Listed. Xylene (CAS 1330-20-7) Listed.

US - Michigan Critical Materials Register: Parameter number

Benzene (CAS 71-43-2) BENZENE Toluene (CAS 108-88-3) **TOLUENE**

Xylene (CAS 1330-20-7) XYLENE (ALL ISOMERS)

US - Minnesota Haz Subs: Listed substance

Acetone (CAS 67-64-1) Listed. Benzene (CAS 71-43-2) Listed. Carbon dioxide (CAS 124-38-9) Listed. Heptane (CAS 142-82-5) Listed. Naphtha (petroleum), hydrotreated light (CAS Listed. 64742-49-0) Toluene (CAS 108-88-3) Listed. Xylene (CAS 1330-20-7) Listed.

US - New Jersey RTK - Substances: Listed substance

Acetone (CAS 67-64-1) Benzene (CAS 71-43-2) Carbon dioxide (CAS 124-38-9) Heptane (CAS 142-82-5)

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

Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)

US - North Carolina Toxic Air Pollutants: Listed substance

Benzene (CAS 71-43-2) Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Benzene (CAS 71-43-2)

US - Texas Effects Screening Levels Hazard Data: Simple asphyxiant

Carbon dioxide (CAS 124-38-9)

US - Texas Effects Screening Levels: Listed substance

Acetone (CAS 67-64-1) Listed. Benzene (CAS 71-43-2) Listed. Carbon dioxide (CAS 124-38-9) Listed. Heptane (CAS 142-82-5) Listed. Naphtha (petroleum), hydrotreated light (CAS Listed. 64742-49-0)

Toluene (CAS 108-88-3) Listed. Xylene (CAS 1330-20-7) Listed

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

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

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Benzene (CAS 71-43-2)

Carbon dioxide (CAS 124-38-9)

Heptane (CAS 142-82-5)

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

Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)

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

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

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

Acetone (CAS 67-64-1)

Benzene (CAS 71-43-2)

Carbon dioxide (CAS 124-38-9)

Heptane (CAS 142-82-5)

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

Toluene (CAS 108-88-3) Xylene (CAS 1330-20-7)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Benzene (CAS 71-43-2)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

US. California Proposition 65

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

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

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

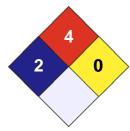
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}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.

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Prepared by Other information

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

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