

SAFETY DATA SHEET

Product : **SPRAY, SILICONE 7 (20 OZ CAN)**

Date Prepared : July 5th, 2017

Section 1 - Product and Company Identification

Product Name/Identifier : SPRAY, SILICONE 7 (20 OZ CAN)

Other name / Synonym :

Company Information : Robco Inc.

Address : 7200 St.Patrick, LaSalle QC Canada H8N 2W7

Telephone : 514-367-2252

Email : info@robco.com

Website : www.robco.com

Section 2 - Hazards identification

Physical hazards / Health hazards

Flammable aerosols	Category 1
Skin corrosion/irritation	Category 2
Reproductive toxicity (the unborn child)	Category 2
Specific target organ toxicity, single exposure	Category 3 narcotic effects
Specific target organ toxicity, repeated exposure	Category 2
Aspiration hazard	Category 1

OSHA defined hazards : Not classified

Label elements:



Signal word : Danger

Hazard statement :

Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement :

Prevention :

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 spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response :

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage :

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal :

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

Environmental hazards :

Hazardous to the aquatic environment, acute Hazard : Category 1
Hazardous to the aquatic environment, long-term hazard : Category 1

Section 3 - Composition/information on ingredients

Chemical name	CAS No.	%	*The exact percentage (concentration) of composition has been withheld as a trade secret.
Heptane, branched, cyclic and linear	426260-76-6	20 - 40	
n-Heptane	142-82-5	20 - 40	
Propane	74-98-6	20 - 40	
Isobutane	75-28-5	2.5 - 10	
Toluene	108-88-3	1 - 2.5	
Other components below reportable levels		10 - 20	

Section 4 - First aid measures**Inhalation :**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact :

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact :

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion :

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed :

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed :

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information :

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

Section 5 - Firefighting measures

Suitable Extinguishing Media : Foam. Powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media :

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

Specific Hazards Arising from the Chemical :

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

Special Protective Equipment and Precautions for Firefighters :

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

Fire fighting equipment/instructions :

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out

Specific methods :

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes

General fire hazards : Extremely flammable aerosol

Section 6 - Accidental release measures**Personal Precautions, protective equipment and emergency procedures :**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. 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.



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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 release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Section 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. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices

Conditions for safe storage, including any incompatibilities :

Level 3 Aerosol

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - Exposure controls/personal protection

Occupational exposure limits

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

Components	Type	Value
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3 500 ppm

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Propane (CAS 74-98-6)	PEL	1800 mg/m ³ 1000 ppm
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US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Isobutane (CAS 75-28-5)	STEL	1000 ppm
n-Heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Isobutane (CAS 75-28-5)	TWA	1900 mg/m ³ 800 ppm
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m ³
	TWA	440 ppm 350 mg/m ³ 85 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m ³ 1000 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m ³ 150 ppm
	TWA	375 mg/m ³ 100 ppm

Biological limit values :

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

* - For sampling details, please see the source document

Exposure guidelines

US - California OELs: Skin designation

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

US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3) : Skin designation applies.

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

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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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment :

Eye/face protection :

Wear safety glasses with side shields (or goggles)

Skin protection :

Hand protection :

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other :

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

Respiratory protection :

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards :

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations :

Observe any medical surveillance requirements. 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

Section 9 - Physical and chemical properties

Appearance

Physical state

Gas.

Form

Aerosol.

Color

Not available

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

209.3 °F (98.5 °C) estimated

Flash point

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

Evaporation rate

Not available.

Flammability (solid, gas)

Not available

Upper/lower flammability or explosive limits

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Flammability limit – lower (%)	1.8 % estimated
Flammability limit – upper (%)	9.5 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.492 estimated

Section 10 - Stability and reactivity**Reactivity :**

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability :

Material is stable under normal conditions.

Possibility of hazardous reactions :

Hazardous polymerization does not occur.

Conditions to avoid :

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials :

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Hazardous decomposition products :

No hazardous decomposition products are known

Section 11 - Toxicological Information**Information on likely routes of exposure****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 :

Direct contact with eyes may cause temporary irritation.

Ingestion :

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

Symptoms related to the physical, chemical and toxicological characteristics :

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. 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
Isobutane (CAS 75-28-5) Acute Inhalation LC50	Mouse Rat	1237 mg/l, 120 Minutes 52 %, 120 Minutes 1355 mg/l
n-Heptane (CAS 142-82-5) Acute Dermal LD50 Inhalation LC50 Oral LC50	Rabbit Rat Rat	> 2000 mg/kg, 24 Hours > 29.29 mg/l, 4 Hours > 5000 mg/kg
Propane (CAS 74-98-6) Acute Inhalation LC50	Mouse Rat	1237 mg/l, 120 Minutes 52 %, 120 Minutes 1355 mg/l 658 mg/l/4h
Toluene (CAS 108-88-3) Acute Dermal LD50 Inhalation LC50 Oral LC50	Rabbit Mouse Rat Rat	> 5000 mg/kg, 24 Hours 6405 - 7436 ppm, 6 Hours 5320 ppm, 8 Hours 5879 - 6281 ppm, 6 Hours 25.7 mg/l, 4 Hours > 5000 mg/kg

* Estimates for product may be based on additional component data not shown

Skin corrosion/irritation :

Causes skin irritation

Serious eye damage/eye irritation :

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization**Respiratory sensitization :**

Not a respiratory sensitizer.

Skin sensitization :

This product is not expected to cause skin sensitization

Germ cell mutagenicity :

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity :

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity:**Toluene (CAS 108-88-3) :**

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) :

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens :

Not listed.

Reproductive toxicity :

Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure :

May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure :

May cause damage to organs through prolonged or repeated exposure. Central nervous system. Respiratory system. Eyes. Skin. Liver. Kidneys.

Aspiration hazard :

May be fatal if swallowed and enters airways.

Chronic effects :

May cause damage to organs through prolonged or repeated exposure.

Section 12 - Ecological information

Ecotoxicity : Very toxic to aquatic life with long lasting effects

Components	Species	Test Results
n-Heptane (CAS 142-82-5) Aquatic Fish LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours

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<p>Toluene (CAS 108-88-3) Aquatic Algae IC50 Crustacea EC50 Fish LC50</p>	<p>Algae Daphnia Water flea (Daphnia magna) Coho salmon, silver salmon (Oncorhynchus kisutch)</p>	<p>433.0001 mg/L, 72 Hours 7.645 mg/L, 48 Hours 5.46 - 9.83 mg/l, 48 hours 5.46 - 9.83 mg/l, 48 hours</p>
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* Estimates for product may be based on additional component data not shown.

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

Bioaccumulative potential :

Partition coefficient n-octanol / water (log Kow)

Isobutane	2.76
n-Heptane	4.66
Propane	2.36
Toluene	2.73

Mobility in soil : No data available.

Other adverse effects :

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/ regional/ national/ international regulations

Local disposal regulations : Dispose in accordance with all applicable regulations.

Hazardous waste code :

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

Waste from residues / unused products :

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

Contaminated packaging :

Since emptied containers may retain product residue, follow label warnings even after



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container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers

Section 14 - Transport information

DOT

UN number : UN1950

UN proper shipping name : Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class : 2.1

Subsidiary risk : -

Label(s) : 2.1

Packing group : Not applicable.

Special precautions for user :

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Special provisions : N82

Packaging exceptions : 306

Packaging non bulk : None

Packaging bulk : None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently

IATA

UN number : UN1950

UN proper shipping name : Aerosols, flammable.

Transport hazard class(es)

Class : 2.1

Subsidiary risk : -

Label(s) : 2.1

Packing group : Not applicable.

Environmental hazards : Yes

ERG Code : 10L

Special precautions for user :

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Aircraft : Allowed with restrictions.

Cargo aircraft only : Allowed with restrictions.

Packaging Exceptions : LTD QTY

UN number : UN1950

UN proper shipping name : AEROSOLS

Transport hazard class(es)

Class : 2.1

Subsidiary risk : -

Label(s) : 2.1

Packing group : Not applicable.

Environmental hazards

Marine pollutant : Yes

EmS : F-D, S-U

Special precautions for user :

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions : LTD QTY

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :

Not applicable.

DOT

Flammable Gas



IATA; IMDG



Marine pollutant**General information** : IMDG Regulated Marine Pollutant**Section 15 - Regulatory information****US federal regulations :**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) : Not regulated**CERCLA Hazardous Substance List (40 CFR 302.4)** : Toluene (CAS 108-88-3) : Listed**SARA 304 Emergency release notification** : Not regulated**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** : Not regulated**Superfund Amendments and Reauthorization Act of 1986 (SARA) :****Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance : Not listed**SARA 311/312 Hazardous** : No chemical**SARA 313 (TRI reporting) :**

Chemical Name	CAS number	% by wt.
Toluene	108-88-3	1 - 2.5

Other federal regulations :**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List :**

Toluene (CAS 108-88-3)

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

Isobutane (CAS 75-28-5)

Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA) : Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number :

Toluene (CAS 108-88-3) : 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) :

Toluene (CAS 108-88-3) : 35 %WV

DEA Exempt Chemical Mixtures Code Number :

Toluene (CAS 108-88-3) : 594

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) :

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.(a)) :

Isobutane (CAS 75-28-5)

Toluene (CAS 108-88-3)

US. Massachusetts RTK - Substance List :

Isobutane (CAS 75-28-5)

n-Heptane (CAS 142-82-5)

Propane (CAS 74-98-6)

Toluene (CAS 108-88-3)

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

Isobutane (CAS 75-28-5)

n-Heptane (CAS 142-82-5)

Propane (CAS 74-98-6)

Toluene (CAS 108-88-3)

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

Isobutane (CAS 75-28-5)

n-Heptane (CAS 142-82-5)

Propane (CAS 74-98-6)

Toluene (CAS 108-88-3)

US. Rhode Island RTK :

Isobutane (CAS 75-28-5)

Propane (CAS 74-98-6)

Toluene (CAS 108-88-3)



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US. California Proposition 65 :

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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

Toluene (CAS 108-88-3)

Listed: January 1, 1991

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s)

Section 16 - Other information

Disclaimer :

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, storage, transportation and release and is not considered a warranty or quality specification. The responsibility for the compliance with existing law and regulations lies with the receiver of the product.