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2. HAZARD IDENTIFICATION

Health and Safety :

Extremely Flammable
(DME propellant)
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

Environment :

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards :

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.

3. COMPOSITION AND INFORMATION ON COMPONENTS

Hazardous ingredient	CAS-nr	EINECS	w/w %	symbol	R-phrases*	Notes
2-methoxy-1-methylethyl acetate	108-65-6	203-603-9	<0.1	Xi	10-36	A
dimethyl ether	115-10-6	204-065-8	30-60	F+	12	A
Naphtha (petroleum), hydrotreated light (benzene<0.1%)	64742-49-0	265-151-9	1-5	Xn	10-65-66-67	B,P
Naphtha (petroleum), hydrodesulfurized heavy (benzene<0.1%)	64742-82-1	265-185-4	1-5	Xn,N	10-51/53-65-66-67	B,P

Hazardous ingredient	CAS-nr	EINECS	w/w %	symbol	R-phrases*	Notes
zinc powder - zinc dust (stabilized)	7440-66-6	231-175-3	10-30	N	50/53	
butanone; ethyl methyl ketone	78-93-3	201-159-0	<20	F,Xi	11-36-66-67	A
Explanation notes						
A : substance with Community workplace exposure limit						
B : substance with national established workplace exposure limit						
P : not classified as carcinogen, less than 0.1% w/w benzene (Einecs-nr. 200-753-7)						

Note H and P of Annex I (67/548/EEC) apply for the naphtha's in this product.
 Remark: for substances with workplace exposure limits see point 8.
 (* Explanation risk-phrases : see chapter 16)

4. FIRST AID MEASURES

General Advice :	If symptoms persist always call a doctor
Contact with eyes :	If substance has got into eyes, immediately wash out with plenty of water for several minutes Seek medical advice Wash with water and soap.
Contact with skin :	
Inhalation :	Fresh air, keep warm and at rest. Seek medical attention if ill effects occur
Ingestion :	Ingestion is unlikely to occur If swallowed accidentally, do not induce vomiting and seek medical advice.

5. FIRE-FIGHTING MEASURES

< 0 °C

Flash point (without propellant):

Explosion limits : upper limit : not available

lower limit : not available

Extinguishing media : foam, carbon dioxide or dry agent

Fire-fighting procedures : Keep container(s) exposed to fire cool, by spraying with water

Unusual exposure hazard : 50°C
Aerosols may explode if heated above
In case of fire, do not breathe fumes

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Shut off all ignition sources
Ensure adequate ventilation

Environmental precautions : Do not allow to enter public sewers and watercourses
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

Cleaning methods : Absorb spillage in suitable inert material

7. HANDLING AND STORAGE

Handling procedures : Use only in well ventilated areas
Keep away from heat and sources of ignition
Do not spray on a naked flame or incandescent material.
Do not pierce or burn aerosols, even after use.
Do not breathe aerosols or vapours.
Avoid contact with skin and eyes.

Storage procedures : Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
Keep in a cool, dry, well ventilated place
Keep out of reach of children.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Control procedures : Ensure adequate ventilation
Keep away from heat and sources of ignition
Take precautionary measures against static discharges

Personal protection : It is advisable to take precautions to avoid contact with skin and eyes when handling the product.
Use only in well ventilated areas

inhalation : In case of insufficient ventilation, wear suitable respiratory equipment.
(Filter type AX)

hands and skin : Wear suitable protective gloves
(butylrubber)

eyes : Wear safety goggles.

Exposure limits :

Hazardous ingredient	CAS-nr	method	
EU established exposure limits:			
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm
		STEL	100 ppm
dimethyl ether	115-10-6	TWA	1000 ppm
butanone; ethyl methyl ketone	78-93-3	TWA	200 ppm
		STEL	300 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES (for aerosols without propellant)

DME propelled liquid

Apperance : physical state :

colour : grey

odour : Characteristic odour

Melting point/range : <-20 °C

Boiling point/range : not available

Relative density : 1.431 g/cm³ (@ 20°C)

pH : not applicable

Vapour pressure : not available

Relative vapour density : not available

Solubility in water : Insoluble in water

Partition coefficient n-octanol/water: not available

Flash point : < 0 °C

Auto-ignition : > 250 °C

Viscosity : not available

not available

Evaporation rate :

10. STABILITY AND REACTIVITY

Conditions to be avoided : Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep away from heat and sources of ignition

Strong oxidising agent

Materials to be avoided :

CO,CO2

Hazardous decomposition compounds :

11. TOXICOLOGICAL INFORMATION

Inhalation :

Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness

Skin contact :

Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis

Eye contact :

May cause irritation.

12. ECOLOGICAL INFORMATION

Other adverse effects :

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do not allow to enter public sewers and watercourses

13. WASTE DISPOSAL

Product : Do not empty into drains.
This material and its container must be disposed of in a safe way.
Disposal should be in accordance with local, state or national legislation

14. TRANSPORT

UN-number : 1950

Road/Rail - ADR/RID : UN1950 Aerosols Class : 2, PG : NA, Class code : 5F, Label : 2.1

Sea - IMDG : UN1950 Aerosols Ltd Qty Class : 2.1, PG : NA, Label : 2.1

EmS F-D,S-U

Air - IATA/ICAO : UN1950 Aerosols, flammable Class : 2.1, PG : NA, Label : RFG

Packing instr. Y203

LQ

PAX 203

CAO 203

15. REGULATORY INFORMATION

Warning symbol(s) : F+,N

Risk-phrase(s) : R12: Extremely flammable.
R50/53: Very toxic to aquatic organisms, may

cause long-term adverse effects in the aquatic environment.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

S2: Keep out of the reach of children.

S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe spray.

S35: This material and its container must be disposed of in a safe way.

S51: Use only in well-ventilated areas.

Safety-phrase(s) :

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Without adequate ventilation formation of explosive mixtures may be possible.

16. OTHER INFORMATION

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

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***Explanation risk-phrases:**

R10: Flammable.

R11: Highly flammable.

R12: Extremely flammable.

R36: Irritating to eyes.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

This Material Safety Data Sheet may already have been revised at this moment for reason such as legislation, availability of components and newly acquired experiences. The latest and only

valid version of this Material Safety Data Sheet will be sent to you upon simple request or can be found on our website : www.crcind.com. We recommend you to register on this website for this product so you will be able to receive any future updated version automatically.