

SECTION 1. IDENTIFICATION

Product identifier used on the label: **METALON® C2 Extreme Pressure oil****Product Code(s)** : METALON C2**Recommended use of the chemical and restrictions on use**: Anti-Wesr Friction Fighter
Use pattern: Professional use only
Recommended restrictions: None known.**Chemical family** : Mixture of:Petroleum hydrocarbon;chlorinated compounds**Name, address, and telephone number of the supplier:** **Name, address of the manufacturer:****METALON SWISS**

Refer to supplier

by BOHA AG
Baselstrasse 6A
CH-4243 Dittingen BL, Switzerland
Telephone +41 761 16 16 Mo to Fr 09:00-16:00**24 h. Emergency Tel: +41 145 (Toxi Schweiz) or National poison control center**

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear amber liquid. Mild odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:Acute toxicity, inhalation - Category 4
Aspiration Toxicity - Category 1**Label elements***Hazard pictogram(s)**Signal Word* DANGER!*Hazard statement(s)*Harmful if inhaled.
May be fatal if swallowed and enters airways.*Precautionary statement(s)*Avoid breathing mist or vapours.
Use only outdoors or in a well-ventilated area.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center/doctor if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be mildly irritating to skin, eyes and respiratory system.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Hydrotreated light naphthenic distillate	Petroleum hydrocarbon	64742-53-6	15.0 - 40.0
Hydrotreated light distillate	Distillates (petroleum), hydrotreated light	64742-47-8	7.0 - 13.0
stoddard solvent	Mineral spirits White spirit	8052-41-3	5.0 - 10.0
Mineral oil, petroleum distillates, solvent-dewaxed light paraffinic	Solvent-dewaxed, light paraffinic distillate (solvent-refining or hydrotreatment)	64742-56-9	5.0 - 10.0
Solvent refined heavy paraffinic distillate	Mineral oil	64741-88-4	1.0 - 5.0
Benzenesulfonic acid, mono-C16-24-alkyl derivatives, calcium salts	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	70024-69-0	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES
Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person. Call a physician.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.
- Skin contact* : Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

- : Harmful if inhaled. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. May cause mild eye irritation. Symptoms may include stinging and tearing. May cause mild skin irritation. Symptoms may include mild redness and swelling. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically. Aspiration hazard.

SECTION 5. FIRE-FIGHTING MEASURES
Extinguishing media
Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

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

Special hazards arising from the substance or mixture / Conditions of flammability

- : Burning may produce irritating, toxic and obnoxious fumes..

Flammability classification (OSHA 29 CFR 1910.106)

: not flammable

Hazardous combustion products

: Carbon oxides

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. *Special fire-fighting procedures*

Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up..

Environmental precautions

: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

: Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Use only in well-ventilated areas. Wear personal protective equipment. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

Conditions for safe storage

: Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials

: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
	Chemical name	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Hydrotreated light naphthenic distillate	5 mg/m ³ (As 'Oil mist, mineral')(inhalable)	N/Av	5 mg/m ³ (As 'Oil mist, mineral')	N/Av	
Mineral oil, petroleum distillates, solvent-dewaxed light paraffinic	N/Av	N/Av	N/Av	N/Av	

Exposure controls

Ventilation and engineering measures

- Respiratory protection** : Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
: If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
- Skin protection** : Wear protective gloves. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical goggles are recommended when there is a potential for splashing.
- Other protective equipment** : Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear amber liquid.
- Odour** : Mild odour.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : N/Av
- Initial boiling point and boiling range** : N/Av
- Flash point** : >175°C
- Flashpoint (Method)** : ASTM D93 Closed cup
- Evaporation rate (BuAe = 1)** : N/Av
- Flammability (solid, gas)** : Not applicable.
- Lower flammable limit (% by vol.)** : N/Av
- Upper flammable limit (% by vol.)** : N/Av
- Oxidizing properties** : None.known
- Explosive properties** : Not explosive
- Vapour pressure** : N/Av
- Vapour density** : N/Av
- Relative density / Specific gravity** : 1.0
- Solubility in water** : insoluble.
- Other solubility(ies)** : N/Av
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av
- Auto-ignition temperature** : N/Av
- Decomposition temperature** : N/Av
- Viscosity** : 11.92 cSt
- Volatiles (% by weight)** : N/Av
- Volatile organic Compounds (VOC's)** : N/Av
- Absolute pressure of container** : N/Av
- Flame projection length** : N/Av

Other physical/chemical comments

: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization will not occur.

Conditions to avoid : Avoid excessive heat, sparks and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials : Oxidizing agents; Acids

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Harmful if inhaled. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.

Sign and symptoms ingestion

: Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache)

Sign and symptoms skin

: Direct skin contact may result in little or no irritation

Sign and symptoms eyes

: May cause mild transient irritation.

Potential Chronic Health Effects

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Mutagenicity

: Not expected to be mutagenic in humans.

Carcinogenicity

: No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

: This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Medical conditions aggravated by overexposure

: None known.

Synergistic materials

: Not available.

Toxicological data

: There is no data available for this product. The calculated ATE values for this product are: ATE inhalation (mists) = 3.69 mg/L

Chemical name	LC ₅₀ (4hr)	LD ₅₀	
	inh, rat	(Oral, rat)	(Rabbit, dermal)

Hydrotreated light naphthenic distillate	≥ 2.18 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg
Mineral oil, petroleum distillates, solvent-dewaxed light paraffinic	>4 mg/L 4 h	>5000 mg/kg	>5000 mg/kg

Other important toxicological hazards

: None known

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Very toxic to aquatic life with long lasting effects. Do not allow material to contaminate ground water system. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Hydrotreated light naphthenic distillate	64742-53-6	> 100 mg/L (Fathead minnow)	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrotreated light naphthenic distillate	64742-53-6	N/Av	> 100 mg/L/72hr (NOEL)	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Hydrotreated light naphthenic distillate	64742-53-6	N/Av	> 100 mg/L/72hr (NOEL)	None.

Persistence and degradability : No data is available on the product itself

Bioaccumulation potential : No information available.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Hydrotreated light naphthenic distillate (CAS 64742-53-6)	3.9 - 6 (calculated)	N/Av

Mobility in soil : No information available.

Other Adverse Environmental effects

: No information available.





SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT 49CFR/DOT Additional information	None. None.	Not regulated.	not regulated	none	
TDG TDG Additional information	None.	Not regulated.	not regulated	none	
	This material may be shipped as an exempted marine pollutant in accordance with TDG Section 1.45.1 and Special Provision 99.				
ICAO/IATA ICAO/IATA Additional information	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Tetradecane, chloro derivatives)	9	III	 
	IATA SV 197: These substances are not subject to any other provisions of these Regulations if they are carried in single or composite packagings with a net quantity per single or internal packaging of not more than 5L for liquids and a net weight of not more than 5kg for substances, provided the packaging complies with the requirements general requirements of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. [corresponds to section 4.1. at ADR / RID]				
IMDG IMDG Additional information	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetradecane, chloro derivatives)	9	III	 
	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				

Special precautions for user : None known or reported by the manufacturer.

Environmental hazards : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: Not available.

SECTION 15 - REGULATORY INFORMATION
US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. Specific Toxic Chemical	313, 40 CFR 372, Chemical de minimus Concentration
Hydrotreated light naphthenic distillate	64742-53-6	Yes	None.	None.	No	N/Ap
Mineral oil, petroleum distillates, solvent-dewaxed light paraffinic	64742-56-9	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute toxicity, Aspiration hazard.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	California Proposition 65	State "Right to Know" Lists

	CAS #	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Hydrotreated light naphthenic distillate	64742-53-6	No	N/Ap	No	Yes	No	No	No	No
Mineral oil, petroleum distillates, solvent-	64742-56-9	No	N/Ap	No	Yes	No	No	No	No

Canadian Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product. Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Hydrotreated light naphthenic distillate	64742-53-6	265-156-6	Present	Present	(9)-1692	KE-12552	Present	May be used as a single component chemical under an appropriate group standard.
Mineral oil, petroleum distillates, solvent-dewaxed light paraffinic	64742-56-9	265-159-2	Present	Present	(9)-1692	KE-12609	Present	N/Av

SECTION 16. OTHER INFORMATION
Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
 CA: California
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 CNS: Central Nervous System
 CSA: Canadian Standards Association
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 HMIS: Hazardous Materials Identification System
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation
 IUCLID: International Uniform Chemical Information Database
 LC: Lethal Concentration
 LD: Lethal Dose
 MA: Massachusetts
 MN: Minnesota
 N/Ap: Not Applicable
 N/Av: Not Available
 NFPA: National Fire Protection Association
 NIOSH: National Institute of Occupational Safety and Health
 NJ: New Jersey
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PA: Pennsylvania
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 RI: Rhode Island
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

References

- : ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
1. International Agency for Research on Cancer Monographs, searched 2017
 2. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
 3. Material Safety Data Sheets from manufacturer.
 4. US EPA Title III List of Lists - 2017 version.
 5. California Proposition 65 List - 2017 version.
 6. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2017.

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