

Revision Date 30/10/2014
Date of the previous version --

Version 1
EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name **Cop-R-Lube®**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Anti-seize, Lubricant.
Uses advised against No information available.

1.3 Details of the supplier of the safety data sheet

TOPCO OILSITE PRODUCTS LTD.
Bay 7, 3401 - 19 Street N.E.
Calgary, Alberta
CANADA T2E 6S8
Tel.: (403) 219-0255
Fax: (403) 291-3042
MSDS@TOPCOOILSITE.COM

1.4 Emergency telephone number

National Poisons Information Service (London Centre)
+44 20 7771 5307

CANUTEC (Canada)
001-613-996-6666, Cell: *666, TTY/TDD: 1-888-675-6863

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (1272/2008/EC)
Not classified

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Not classified.

2.2 Label elements

None.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)	REACH Registration Number
Graphite	231-955-3	7782-42-5	15-25	-	-	No data available
Copper oxide	215-269-1	1317-38-0	5-15	N; R50 R52/53	Aquatic acute 1 H400 Aquatic chronic 3 H412	No data available

For the full text of the R-phrases mentioned in this section, see Section 16.
For the full text of the H-Statements mentioned in this section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	No hazards which require special first aid measures.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms No acute and delayed symptoms and effects are observed.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Dry chemical, Waterfog, Carbon dioxide (CO₂), Foam, sand.

Extinguishing media which must not be used for safety reasons None known.

5.2 Special hazards arising from the substance or mixture

Special hazard Hazardous decomposition products formed under fire conditions: Carbon oxides. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses. Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Wear personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition, Strong oxidising agents.

7.3 Specific end use(s)

Exposure Scenario Not available.

Other information Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Graphite		STEL: 30 mg/m ³ (inh) STEL: 12 mg/m ³ (resp) TWA: 10 mg/m ³ (inh) TWA: 4 mg/m ³ (resp)	VME: 2 mg/m ³ (alv)	VLA-ED: 2 mg/m ³ (inh)	MAK: 1.5 mg/m ³ (alv) MAK: 4 mg/m ³ (inh)
Copper oxide					TWA: 0.1 mg/m ³ Ceiling / Peak: 0.2 mg/m ³

Chemical Name	Italy	Portugal	Netherlands	Denmark	Poland
Graphite		TWA: 2 mg/m ³ (resp)		STEL: 5 mg/m ³ (resp) TWA: 2.5 mg/m ³ (resp)	NDS: 4.0 mg/m ³ (inh) NDS: 1.0 mg/m ³ (resp) NDS: 6.0 mg/m ³ (synthetic, inh)
Copper oxide					TWA: 0.2 mg/m ³

Chemical Name	Belgium	Sweden	Hungary	Finland	Czech Republic
Graphite	TWA: 2 mg/m ³ (resp)	TWA: 5 mg/m ³ (inh)		TWA: 2 mg/m ³	TWA: 2.0 mg/m ³ TWA: 10 mg/m ³
Copper oxide			STEL: 4 mg/m ³	TWA: 1 mg/m ³	

Derived No Effect Level (DNEL) For: Workers.

Chemical Name	Long-term exposure - Local effects - Inhalation	Long-term exposure - Local effects - Dermal	Acute / short-term exposure - Local effects - Inhalation	Acute / short-term exposure - Local effects - Dermal
Graphite	1.2 mg/m ³			

Predicted No Effect Concentration (PNEC)

Chemical Name	Freshwater	Marine water	Intermittent release	Sewage treatment plant	Freshwater sediment	Marine sediment	Soil	Oral
Copper oxide	7.8 µg/L	5.2 µg/L		230 µg/L	87 mg/kg sediment dw	676 mg/kg sediment dw	65 mg/kg soil dw	

8.2 Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye protection	Tightly fitting safety goggles.
Hand protection	Protective gloves: Rubber gloves. Glove thickness: 5 mil. Break through time: 4-8 hours.
Skin and body protection	Long sleeved clothing.
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state @20°C	Solid
Appearance	Paste
Colour	No information available
Odour	Mild, Petroleum
pH	No information available
Melting/freezing point	No information available
Boiling point/boiling range	260 °C / 500 °F
Flash point	> 171 °C / > 340 °F
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	No information available
Solubility	
Water solubility	Insoluble
Partition coefficient (n-octanol/water)	No information available
Autoignition Temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidising Properties	No information available

9.2 Other information

Density	1.22 g/cm ³
---------	------------------------

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Inert, not reactive.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	
Ingestion	No known effect.
Skin contact	No known effect.
Inhalation	No known effect.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Graphite	10000 mg/kg (Rat)		> 2000 mg/m ³ air (Rat) 4h
Copper oxide	> 470 mg/kg (Rat)	> 2000 mg/kg bw (Rat)	

Skin corrosion/irritation	No known effect.
Serious eye damage/irritation	. No known effect.
Respiratory or skin sensitisation	No known effect.
Germ cell mutagenicity	Not known to cause heritable genetic damage.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive toxicity	Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.
STOT-single exposure	No known effect.
STOT-repeated exposure	No known effect.
Aspiration hazard	No known effect.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

This product is not known to be hazardous to the environment.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Graphite	EC50: >100 mg/L Pseudokirchnerella subcapitata 72h	LC50: >100 mg/L Danio rerio 96h		EC50: >100 mg/L Daphnia magna 48h
Copper oxide		LC50: 25.4 mg/l Oncorhynchus mykiss 96h LC50: 310-850 µg/l Morone saxatilis 48h		

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products

Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

According to: ADR, RID, ADN, IMDG, IATA/ICAO.

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not regulated.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

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

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Restrictions on use None.

Other regulations None.

15.2 Chemical safety assessment

Not required.

SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R50 - Very toxic to aquatic organisms

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Abbreviations/acronyms

(E)EC: European Commission

REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances

STOT: Specific Target Organ Toxicity

PBT: Persistent, Bioaccumulating, Toxic

vPvB: very Persistent and very Bioaccumulating

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Regulations for the International Transport of Dangerous Goods by Rail

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures

IMDG: International Maritime Dangerous Goods Code

ICAO: International Civil Aviation Organization

Revision Note

Not applicable.

Training Advice

Workers must be trained in the proper use and handling of this product as required under applicable regulations.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text