

Version 3.0

Revision Date 12/09/2015 Ref. 130000031516

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Krytox [™] GPL 246 Product name

Product Grade/Type GPL 246

Product Use Lubricant, For professional users only.

Restrictions on use Do not use product for anything outside of the above specified uses

Manufacturer/Supplier The Chemours Company FC, LLC

> 1007 Market Street Wilmington, DE 19899 United States of America

Product Information : Medical Emergency : Transport Emergency : 1-844-773-CHEM (outside the U.S. 1-302-773-1000) 1-866-595-1473 (outside the U.S. 1-302-773-2000)

CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Acute toxicity (Inhalation) Category 4 Specific target organ toxicity -Category 2

single exposure



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Label content

Pictogram :



Signal word : Warning

Hazardous warnings : Harmful if inhaled.

May cause damage to organs. (Respiratory system, Central nervous system)

Hazardous prevention

measures

: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product. 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.

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Call a POISON CENTER or doctor/ physician if you feel unwell.

Store locked up.

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The product as such is not hazardous., The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco., Repeated episodes of polymer fume fever may result in persistent lung effects.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 75 %



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Copper	7440-50-8	15 %

SECTION 4. FIRST AID MEASURES

General advice : When symptoms persist or in all cases of doubt seek medical advice.

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or

combustion. Oxygen or artificial respiration if needed.

Skin contact : Wash with water and soap as a precaution.

Eye contact : Rinse with plenty of water. If eye irritation persists, consult a specialist.

: No applicable data available.

Ingestion : Never give anything by mouth to an unconscious person. DO NOT induce

vomiting unless directed to do so by a physician or poison control center.

Most important

symptoms/effects, acute

and delayed

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective

equipment.

Notes to physician : Treat symptomatically.

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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : The product itself does not burn.

Use extinguishing measures that are appropriate to local circumstances and

the surrounding environment.

Unsuitable extinguishing

media

: No applicable data available.

Specific hazards : In fire conditions, toxic decomposition products may be formed. (see also

section 10)

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus (SCBA). Wear suitable protective

equipment.

Further information : Standard procedure for chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Avoid contact with the skin and the eyes. Refer to protective measures listed

in sections 7 and 8.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Spill Cleanup : Shovel into suitable container for disposal.

Accidental Release Measures : No applicable data available.

SECTION 7. HANDLING AND STORAGE



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Handling (Personnel) : Avoid breathing vapors from overheated material. Do not store or consume

food, drink or tobacco in areas where they may become contaminated with

this material.

General industrial hygiene practice.

Keep away from food and drink. Keep away from tobacco products. Wash hands and face before breaks and immediately after handling the product.

Handling (Physical Aspects)

Dust explosion class

Storage

No applicable data available.No applicable data available.

: No special storage conditions required. Keep container closed to prevent

contamination.

No decomposition if stored and applied as directed.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : In the event that the polymer is heated above 300°C (572 F) local ventilation

should be used to avoid exposure to fumes.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required. In the case

of hazardous fumes caused by overheating, wear self-contained breathing

apparatus.

Hand protection : Additional protection: No particular glove type is recommended, but nitrile

may be used.

Eye protection : Safety glasses

Skin and body protection : No PPE is specified however, avoid contact with skin, eyes, and clothing.

Preventive skin protection

Exposure Guidelines Exposure Limit Values



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Copper (flakes)

Permissible (OSHA) 1 mg/m3 8 hr. TWA Dust and mist. as Cu

exposure limit:

Permissible (OSHA) 0.1 mg/m3 8 hr. TWA Fume. as Cu

exposure limit:

TLV (ACGIH) 0.2 mg/m3 TWA Fume. as Cu TLV (ACGIH) 1 mg/m3 TWA Dust and mist. as Cu

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid

Form : waxy, grease

Color : copper

Odor : none

Odor threshold : No applicable data available.

pH : No applicable data available.

Melting point/freezing point : Melting point/range

320 °C (608 °F)

Boiling point/boiling range : Boiling point/boiling range

no data available

Flash point : closed cup

does not flash

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.



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Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Specific gravity (Relative

density)

: 3

Water solubility : insoluble

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

: No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : 300 °C

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

No applicable data available.

Conditions to avoid : Decomposition temperature 320 °C (608 °F)

Incompatible materials : No applicable data available.

Hazardous decomposition

products

Hazardous thermal decomposition products:: Fluorinated compounds

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SECTION 11. TOXICOLOGICAL INFORMATION

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Further information : The product contains no substances classified as hazardous to health

in concentrations which should be taken into account.

Copper

Inhalation LC50 : 2.83 mg/l, Rat

Target Organs: Respiratory system, Central nervous system

Respiratory effects Altered respiratory rate Breathing difficulties Laboured breathing

Central nervous system effects

Abnormal posture

Dermal LD50 : > 2,000 mg/kg, Rat

Oral Acute toxicity estimate : 500 mg/kg , Rat

Target Organs: Respiratory system, Central nervous system

Central nervous system effects

Abnormal posture

Letharay

Respiratory effects Altered respiratory rate

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit

Skin sensitization : Did not cause sensitisation on laboratory animals., Guinea pig

Repeated dose toxicity : Oral - feed

multiple species

No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic



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effects.

Animal testing did not show any mutagenic effects.

Reproductive toxicity : No toxicity to reproduction

Animal testing showed no reproductive toxicity.

Teratogenicity : Evidence suggests the substance is not a developmental toxin in

animals.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Copper

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 0.0028 mg/l

Additional ecological information : The product contains no substances classified as hazardous to the

environment in concentrations which should be taken into account.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods -

Product

: In accordance with local and national regulations.

Contaminated packaging : Dispose of container properly.

If recycling is not practicable, dispose of in compliance with local regulations.



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SECTION 14. TRANSPORT INFORMATION

IATA_C UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Copper flake)

Class : 9
Packing group : III
Labelling No. : 9MI

IMDG UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Copper flake)

Class : 9
Packing group : III
Labelling No. : 9

Marine pollutant : yes (Copper flake)

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA: On the inventory, or in compliance with the inventory

SARA 313 Regulated

Chemical(s)

: Copper (flakes)

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):

Copper (flakes), Polytetrafluoroethylene

NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present

at a concentration of 1% or more (0.1% for substances identified as



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carcinogens, mutagens or teratogens): Copper (flakes)

CERCLA Reportable

Quantity

: 33670 lbs
Based on the percentage composition of this chemical in the product.:

Copper (flakes)

SECTION 16. OTHER INFORMATION

Restrictions for use : Do not use or resell Chemours[™] materials in medical applications involving

implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such

use. For further information, please contact your Chemours

representative.

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