



SAFETY DATA SHEET

Issue Date 23-Jan-2015

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Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name Activated Carbon for CPF-003, CPF-005, CPF-016, CPF-030, CPF-055, and CPF-002 Filters for Condephase Units

Other means of identification
Product code: 349026, 349027, 349028, 349029, 349030, 349055
Synonyms Activated Carbon

Recommended use of the chemical and restrictions on use
Recommended Use Filtration.
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address
Klüber Lubrication NA LP
9010 County Road 2120
Tyler, Texas 75707
Phone: (903) 534-8021
Fax: (903) 581-4376

Emergency telephone number
Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2B
Specific target organ toxicity (single exposure) - H335 Respiratory Irritation	Category 3

Label elements

EMERGENCY OVERVIEW

Signal word
Warning

Hazard statements
Causes eye irritation
May cause respiratory irritation



Appearance Particulate	Physical state Solid	Odor Low
Precautionary Statements - Prevention		
Wash face, hands and any exposed skin thoroughly after handling		
Avoid breathing dust/fume/gas/mist/vapors/spray		
Use only outdoors or in a well-ventilated area		
Wear protective gloves/protective clothing/eye protection/face protection		
Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing		
If eye irritation persists: Get medical advice/attention		
Inhalation IF INHALED: 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		
Precautionary Statements - Storage		
Store in a well-ventilated place. Keep container tightly closed		
Store locked up		
Precautionary Statements - Disposal		
Dispose of contents/container to appropriate receptacle		
Hazards not otherwise classified (HNOC)		
Other information		

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Synonyms Activated Carbon.

Components	CAS-No	Weight %	Trade Secret
Activated Carbon	7440-44-0	100	*

4. FIRST AID MEASURES

First aid measures

- Eye contact:** Flush eye with water for 15 minutes. If eye irritation persists, consult a specialist.
- Skin contact:** If a person feels unwell or symptoms of skin irritation appear, consult a physician.
- Inhalation:** Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a physician or Poison Control Centre immediately.
- Ingestion:** If swallowed, seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

High volume water jet.

Unsuitable extinguishing media No information available

Specific hazards arising from the chemical

In the event of fire, cool tanks with water spray.

Hazardous combustion products Carbon monoxide.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin and eyes.

Environmental precautions

Environmental precautions: Not applicable.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Prevent dust cloud.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with eyes and skin. Wet activated carbon removes oxygen from air causing severe hazard to workers inside carbon vessels or confined spaces.

Conditions for safe storage, including any incompatibilities

Storage Conditions Protect containers from physical damage. Keep container tightly closed in a dry and well-ventilated place

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Components	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
Activated Carbon - 7440-44-0	-	15 mg/m ³ (total), 5mg/m ³ (resp)	

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection: None required under normal handling conditions

Eye protection: Safety glasses

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid
Appearance Particulate **Odor** Low **Color** Black **Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>		
Melting point/freezing point	No information available		pH	Not applicable
Flash point	No information available	Cleveland Open Cup	Boiling point / boiling range	No information available
Flammability (solid, gas)	No information available		Evaporation rate	No information available
Upper flammability limit:	No information available		Flammability Limit in Air	
Vapor pressure	No information available		Lower flammability limit:	No information available
Specific Gravity	No information available		Vapor density	No information available
Solubility in other solvents	No information available		Water solubility	Insoluble in water
Autoignition temperature	No information available		Partition coefficient	No information available
Kinematic viscosity	No information available		Decomposition temperature	No information available
Explosive properties		No information available	Dynamic viscosity	No information available
Oxidizing properties		No information available		

Other information

Softening point No information available
Molecular weight No information available
VOC Content (%) No information available
Density No information available
Bulk density No information available

10. STABILITY AND REACTIVITYReactivity

Not applicable

Chemical stability

Stability Stable under normal conditions

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, etc. may result in fire.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid No special storage conditions required

Hazardous Decomposition Products

Hazardous Decomposition Products None under normal processing

Incompatible materials

Incompatible materials Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Eye contact	Irritating to eyes.
Skin contact	No known hazard in contact with skin.
Inhalation	May cause irritation of respiratory tract.
Ingestion	No known effect.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Activated Carbon - 7440-44-0	> 10000 mg/kg (Rat)	-	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No sensitization responses were observed.
Mutagenic effects:	Did not show mutagenic or teratogenic effects in animal experiments.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
STOT - Single Exposure	May cause disorder and damage to the: Respiratory system.
STOT - Repeated Exposure	None under normal use conditions.
Aspiration hazard	Not applicable.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 10010 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known hazards to the aquatic environment.

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT Not Regulated by any means of transportation

15. REGULATORY INFORMATION

International Inventories

TSCA:	Listed in TSCA
DSL:	All of the components in this product are listed in DSL
EINECS/ELINCS	This product complies with EINECS/ELINCS
CHINA:	This product complies with China IECSC.
KECL:	This product does not comply with Korea KECL.
PICCS:	This product complies with Philippines PICCS.
AICS:	All the constituents of this material are listed on the Australian AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Components	NJRTK:	MARTK:	PARTK:
Activated Carbon - 7440-44-0	Substance no. 3325 Listed.	Not Listed	Not Listed

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Nfpa:

Health: 1

Flammability: 0

Instability 0

NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *

HMIS health rating:

Health: 1

Flammability: 0

Physical hazards 0

Personal protection B

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Revision Note

Not applicable

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.

End of Safety Data Sheet