SAFETY DATA SHEET

REDACTED REFERENCE COPY

1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION AND COMPANY

Product name	:	Activated Carbon(made of steam activated coal)
Product code	:	Customers Tariff Code: 3802109000
Usage	:	Adsorption and filter
Appearance	:	Granules form black

Manufacturer and supplier details have been removed from this reference copy.

For operational use and emergency contact details, obtain the complete manufacturer SDS.

Date 2026.01.03

2. COMPOSITION/INFORMATION ON INGRIDENTS

Component name : Carbon. Element-Group
CAS No : **7440-44-0**
Conc.(%w/w): Carbon (90%), Ash (7%), Water(3%)

Others :This particular form of carbon is prepared by steam activated process. Testing using methods in 49 CFR173 Appendix E has shown the product does not meet the definition of Hazard class 4.2. This product is classified as hazardous by criteria Specified in 29CFR 1910.1200 (Hazard Communication)

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW :

Human	: May be irritating to eyes, skin and respiratory tract. High airborne dust Concentrations may pose an explosion hazard.
Eyes	: Carbon particles may cause physical irritation.
Skin	: Prolonged or repeated contact may cause dryness or chapping of exposed Area. Chronic skin exposure may discolor the hair follicle.
Ingestion	: Ingestion may cause gastrointestinal irritation, vomiting and Constipation.
Inhalation	: Overexposure may cause irritation to respiratory system due to carbon deposition in the lungs and the respiratory tract.
Ecological	: No information found.

4. FIRST AID MEASURES

Eyes : Immediately flush eyes with plenty of water. Seek medical attention if Irritation persists.
Skin : Wash with soap and water to avoid drying and chopping of skin.
Ingestion : Only qualified medical personal should conduct use of this product for medicinal purposes. If swallowed get immediate medical attention or avoid.
Inhalation : Remove victim to fresh air. Apply resuscitation if victim is not breathing. Seek medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash point : 400 to 500 deg.C

Extinguishing media: Dry chemical, foam, carbon dioxide, water fog etc.

Special exposure hazards: Steam activated carbon is combustible but not easily ignitable below 200C and self-ignition in air is at well above 350C.Activated carbon is an electrical conductor and should therefore not be allowed to accumulate as dust on open electrical circuits. Electrical outlets, lights and motors in dry carbon feed and storage areas should be of such construction as to preclude the entrance of carbon dust. Suspension of powdered activated carbon may explode if exposed to strong sources of ignition. Upon combustion, this product may emit carbon monoxide and low molecular weight hydrocarbons. Other materials adsorbed on to the carbon also be released during combustion.

Protective equipment for fire- fighting: In the event of fire, wear full protective clothing and NIOSH-approved self –contained breathing apparatus with full face piece operated in the pressure demand or other positive mode.

FIRE fighting guidance: Fire fighters should wear full protective clothing including self contained breathing apparatus. Avoid direct stream at pressure on the carbon to prevent dispersal of shouldering particles, which could spread the fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wet activated carbon removes oxygen from air causing a severe hazard to all inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state and federal regulations.

Environmental Precautions: Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Use adequate ventilation. Wash thoroughly after handling.

Spillage: No information found.
Note

7. HANDLING AND STORAGE

Handling and storage: Project against damage. Store in cool, dry well- ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be no smoking areas. Use non sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (Dust, solids): observe all warnings and precautions listed for the product.
Shelf life:3 years based on this condition

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: No information found

Respiratory protection: For conditions of use where exposure to the dust or mist apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use full-face positive pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Hand protection: Use protective gloves

Ingestion: No adverse effects expected. May cause mild irritation to the gastrointestinal tract. The oral LD 50 (Rat) is 10g/kg.

Eye Contact: No adverse effects expected. May cause mild irritation, possible reddening.

Other:

Health rating	: 1-Slight
Flammability rating	: 3-Severe (Flammable)
Reactivity rating	: 1- Slight
Contact rating	: 1-Slight
Lab Protective Equip	: GOOGLES; LAB COAT; CLASS –B EXTINGUISHER
Strong Color Code	: Orange (General Code)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :Black color granular
Physical state : Granular
Color : Black
Odor : Odorless
Solubility : Insoluble in water
Specific Gravity/Density at 23 deg C – 1.5 to 1.8.

Melting point : 3550 deg. C (6422 F)
Vapor pressure at 20 deg. C (MM Hg): 1 @ 3586deg.C (6487 F)
Vapor density (Air +1): 0.4
Solubility in water (20 deg.C) : Insoluble in water

10. STABILITY AND REACTIVITY

Stability : Stable under ordinary condition of usage and storage

Hazards decomposition Product: Involvement in a fire causes formation of carbon di oxide and carbon monoxide

Hazards Polymerization: Will not occur

Incompatibilities: Liquid air oxidizing materials. Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate etc.,

Conditions to avoid: Incompatibles

11. TOXICOLOGICAL INFORMATION

Acute studies: Explained in concerned headings
Eye : Explained in concerned headings
Skin : Explained in concerned headings
Ingestion: Explained in concerned headings
Inhalation: Explained in concerned headings

Long term studies : No information found
Carcinogenicity : No information found
Mutagen city : No information found
Reproductive toxicity: No information found

12. ECOLOGICAL INFORMATION

Persistence in the environment	: No information found
Toxic effects on organisms	: No information found
Fish	: No information found
Daphnia Megna	: No information found
Birds	: No information found

13 DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change waste management options. State and local disposal regulations may differ from federal disposal regulations.

Container disposal: Dispose of container and unused contents in accordance with federal, state and local requirement.

14. TRANSPORT INFORMATION

DATAMSEA REFERENCE NOTE

The source SDS lists 'Not regulated' for IMDG and cites UN Test N.4 (Rev. 8, 33.4.6).
IMDG 42-24 listing, when regulated: UN 1362, CARBON, ACTIVATED, Class 4.2, PG III.
For steam-activated carbon, SP 979 requires a consignor's certificate confirming steam activation, submitted with the SOLAS VI/2 cargo information under 5.4.4.2.
Regulatory reference: UK Maritime and Coastguard Agency, MIN 715 (M), 3.8-3.9.

15. REGULATORY INFORMATION

Technical CAS No: **7440-44-0**

Component name : Activated Carbon

Then following precautions appear in the 'PRECAUTIONS' section of label / leaflet.

16. OTHER INFORMATION

MSDS data information is intended to give general health and safety guidance on the storage and transport of the substance or product of which it relates. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product shall take precedence over any of the guidance contained in this safety data where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication, and will be updated as and when appropriate.