

SAFETY DATA SHEET

DualSorb™

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DualSorb™
GENERAL USE: Adsorption and exchange of PFAS congeners

MANUFACTURER:

Redox Tech, LLC
200 Quade Drive
Cary, NC 27513
919-678-0140

EMERGENCY TELEPHONE:

Within USA and Canada: 1-800-424-9300
+1 703-527-3887 (collect calls accepted)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Non-hazardous mixture of powder activated carbon and powder ion exchange polymers that are used for water treatment. Dust inhalation measures should be taken.

3. COMPOSITION INFORMATION ON INGREDIENTS

All components are non-hazardous and are approved for treating potable water by the National Sanitation Foundation (NSF)

4. FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes. See a medical doctor if irritation persists.

SKIN: Rinse with water. Irritation is highly unlikely to occur, but if irritation occurs or persists, seek medical attention.

INGESTION: If nausea occurs, vomiting may be induced. Seek medical attention if nausea or discomfort continues.

INHALATION: Dust mask should be used when transferring media.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Deluge with water, approved foam or inert gas

FIRE/EXPLOSION HAZARDS: activated carbon component can combust at high temperatures. Combustion will produce carbon dioxide and carbon monoxide.

FIRE FIGHTING PROCEDURES: Use flooding with plenty of water, carbon dioxide or other inert gasses. Wear full protective clothing and self-contained breathing apparatus.

SENSITIVITY TO IMPACT: non-sensitive

SENSITIVITY TO STATIC DISCHARGE: not available

6. ACCIDENTAL RELEASE MEASURES

Confine and collect spill. Transfer to an approved DOT container and properly dispose. Do not dispose of or rinse material into sewer, stormwater or surface water.

7. HANDLING AND STORAGE

HANDLING: Avoid contact by using water repellent protective gloves and safety glasses

STORAGE: Use first in, first out storage system. Avoid contamination of opened product. Avoid contact with reducing agents.

COMMENTS: Use gentle mechanical agitation to avoid mobilizing fine powder

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

All components are non-hazardous

ENGINEERING CONTROLS: None are required. If active ventilation is used, it should be gentle as to not create dust.

PERSONAL PROTECTIVE EQUIPMENT

EYES: Safety goggles

RESPIRATORY: dust mask

PROTECTIVE CLOTHING: None necessary

GLOVES: rubber, latex or neoprene

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	none
Appearance:	black powder with tan-white particles
Auto-ignition Temperature	>500C
Boiling Point	NA
Melting Point	NA
Density	0.55 gram/cc
Solubility	Insoluble
pH	6-8

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: oxidizing agents.

STABILITY: product is stable

POLYMERIZATION: will not occur

INCOMPATIBLE MATERIALS: oxidizers may result in combustion

HAZARDOUS DECOMPOSITION PRODUCTS: combustion may produce carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

A: General Product Information

Acute exposure may cause mild skin and eye irritation. Gastrointestinal absorption may cause nausea.

B: Component Analysis - LD50/LC50

No information available.

B: Component Analysis - TDLo/LDLo

TDLo (Oral-Man) 183 mg/kg/4 hours-intermittent: Gastrointestinal: hypermotility, diarrhea;
LDLo (Intraduodenal-Woman) 5344 mg/kg

Carcinogenicity

A: General Product Information

No information available.

B: Component Carcinogenicity

Product is not listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

No information available.

Neurotoxicity – No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity: non-toxic

Environmental Fate : non-toxic, no potential for food chain concentration

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Material is not considered hazardous, but consult with local, state and federal agencies prior to disposal to ensure all applicable laws are met.

14. TRANSPORT INFORMATION

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

US DOT Information

Shipping Name: Not Regulated

Hazard Class: Not Classified

UN/NA #: Not Regulated

Packing Group: None

Required Label(s): None

50th Edition International Air Transport Association (IATA):

Not Regulated

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

Material is not regulated under IMDG

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III

SECTION 311 Hazard for Immediate health Hazard

SECTION 312 No Threshold Quantity

SECTION 313 Not listed

CERCLA NOT REGULATED UNDER CERCLA

TSCA NOT REGULATED UNDER TSCA

CANADA (WHIMS): NOT REGULATED

16. OTHER INFORMATION

HMIS:

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	E

E: Safety Glasses and dusk mask