



MATERIAL SAFETY DATA SHEET

GRANULAR ACTIVATED CARBON (VERSION NO. 005; REVISION DT. 01/03/2024)

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

Product Name : Granular Activated Carbon
Product Grades Category : Cocosorb
Chemical Family : Carbon. Element – Group IV A
Recommended Use : Water Treatment
Manufacturer Name & Address : LAXMI INTERNATIONAL
F-193 MAHVEER INDUSTIRAL PARK-2, NEAR VINAYK ESTATE – 2
SINGARWA – KHATWADA ROAD, AHENDABAD, GUJARAT - 382430
Emergency Telephone Number : +91-7573011882

2. COMPOSITION INFORMATION ON INGREDIENTS

Identity	CAS No	Typical %	OSHA Hazard	HS Code
Activated Carbon	64365-11-3	100%	N	3802 1000

3. HAZARD IDENTIFICATION

This particular form of carbon is prepared by steam activation 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 non-hazardous by criteria specified in 29 CFR 1910.1200 (Hazard Communication)
Potential Health effects:

Eyes Contact	: Not corrosive but like most dust carbon particles may cause irritation
Skin Contact	: Prolonged or repeated contact may cause dryness or chapping of exposed area. Chronic skin exposure may discolour 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.
Chronic Effects	: IARC: Not listed; NTP: Not listed; OSHA: Not regulated

4. FIRST AID MEASURES

If in Eyes	: Immediately flush with plenty of fresh water. Seek medical attention if irritation persists
If on Skin	: Flush the area with plenty of soap and water to avoid drying and chapping of skin
If Swallowed	: Use of this product for medicinal purposes should be conducted only by qualified medical personnel. If swallowed, induce vomiting or seek by medical personnel
If Inhaled	: Remove victim to fresh air. Apply resuscitation if victim is not breathing. Seek medical attention if irritation persists

5. FIRE AND EXPLOSION RELATED DATA AND FIGHTING MEASURES

Fire and Explosion Hazards	: Non-flammable. Activated carbon is not easily ignitable below 200°C and self-ignition in air is at well above 350°C.
Fire Fighting Instructions	: Fire-fighters should wear full protective clothing including self contained breathing apparatus. Avoid direct stream at pressure on the carbon to prevent dispersal of smouldering particles which could spread the fire
Extinguishing Media	: Dry chemical, foam, carbon dioxide, water fog etc.

6. ACCIDENTAL RELEASE AND DISPOSAL MEASURES

If Spill or Leak Occurs	: Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal of material from eyes, skin and clothing
Disposal Method	: Spent granular activated carbon may be recyclable. Dispose of virgin (unused) carbon (waste or spilled) in a facility permitted for non-hazardous waste. Spent (used) carbon should be disposed in accordance with local regulatory laws
Container Disposal	: Do not use empty bags. Dispose of in facility permitted for non-hazardous waste

7. STORAGE, HANDLING AND TRANSPORTATION

Storage Procedure	: Activated carbon must be stored tightly closed in well ventilated and dry warehouses in secure packaging which precludes moisture and atmospheric contaminants. Precautions must be taken to avoid direct contact of stored activated carbon with strong oxidising agents such as chlorine, hypo chlorites, potassium permanganate, ozone, peroxide etc. Activated carbon in storage must not come in contact with hydrocarbons like oils, gasoline, diesel fuel, grease, paint thinners etc. as mixing of carbon with hydrocarbons may cause spontaneous combustion
Shelf Life	: Activated carbon has a shelf life of five years from the date of manufacturing
Handling	: Direct body exposure should be minimised as a good hygienic practice. Avoid getting this material into contact with your eyes. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. Avoid the formation of airborne dusts. Wet activated carbon selectively depletes oxygen from air. When entering even partially enclosed area containing activated carbon, the oxygen levels must be determined, adequate precautions exercised and appropriate protective equipment used if necessary
Proper Shipping Name	: Activated Carbon (Not DOT regulated)
UN/NA Number	: NA
Packing Group	: NA

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection	: Safety glasses with side shields are recommended while handling. Thorough flushing with water if material contact with eye happens
Skin Protection	: Avoid direct skin exposure. Wash hands or any contact parts with plenty of fresh water and soap
Respiratory Protection	: Use appropriate BIS/NIOSH/MSHA approved particulate respirators is necessary
Airborne Exposure Limits	: Recommended limits for 8 hrs; Total Dust: 2.1 mg/cu.m; Respirable Fraction: 0.7 mg/cu.m

9. PHYSICAL AND CHEMICAL PROPERTIES

Ingredients	: Carbon (90 to 100%); Inert ingredients (0 to 10%)
Appearance	: Black and non-odorous, powder

Water Solubility	: Insoluble
Boiling Point	: 8721 °F, 4827 °C (approx.)
Vapor Pressure @ 30 °C	: NA
Vapor Density	: NA
Freezing Point	: NA
Melting Point	: 3500 °C
Specific Gravity	: 0.38 to 0.44 @ 25 °C
Ignition Point	: 500 to 800 °F

10. STABILITY AND REACTIVITY DATA

Stability	: This product is stable under the specified conditions of storage, shipment and use
Hazardous Decomposition Product	: Involvement in fire causes formation of carbon dioxide and carbon monoxide
Hazards Polymerization	: Will not occur
Incompatibility	: Contact with strong oxidizing agents like ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid in contact with strong acids

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
Mutagenicity	: No information found
Reproductive Toxicity	: No information found
LD50 Rat	: 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

Proper Shipping Name: Activated Carbon
Hazard Class: Not Applicable
UN/NA Number: Not Applicable
Packing Group: Not Applicable

IATA : Not restricted as dangerous goods as per IATA regulation
ICAO: Not restricted as dangerous goods as per ICAO regulation
IMDG: Not restricted as dangerous goods as per IMDG regulation
Not restricted as per IATA SP-A3

15. REGULATORY INFORMATION

Technical CAS No: 64365-11-3
Component Name: Activated Carbon
Applicable PCB rules should be followed

16. OTHER INFORMATION

Wet activated carbon depletes oxygen from air and therefore dangerously low levels of oxygen may be encountered. Whenever workers enter vessel or confined space containing activated carbon, the vessel's oxygen levels should be monitored and work precautions for potentially low oxygen areas should be followed.

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.