

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS No. **Z31000F**

Product Name:Activated carbon

MSC

Manufacture's Name: Japan EnviroChemicals, Ltd.

Address:2-37, Chiyoazaki 3-chome-minami, Nishi-ku, Osaka 550-0023, Japan

Telephone:+81-6-4393-0069 Facsimile:+81-6-4393-0049

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component : Activated carbon

Chemical Name : Carbon

Formula : C

CAS No. : 7440-44-0

EEC/EINECS No. : 231-153-3

Percent : 100wt%

3. HAZARD IDENTIFICATION

Ingestion : Practically non-toxic through ingestion.

Eye Contact : Irritation or mechanical itture.

Skin Contact : Slight irritation.

Inhalation : Dust may be irritating to the respiratory tract and cause coughing or sneezing

Wet activated carbon removes oxygen from air causing a severe hazard to workers 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 and/or national regulations.

4. FIRST AID MEASURES

Ingestion : No harmful effects are anticipated. Get medical attention if the irritation persists.

Eye Contact : Immediately flush with plenty of water for at least 15 minutes. If symptoms of irritation persist, have a medical evaluation by an ophthalmologist.

Skin Contact : Wash with plenty of water and soap.

Inhalation : If a problem develops, remove the person to the fresh air and supply oxygen if necessary.

5. FIRE FIGHTING MEASURES

Fire Extinguishing Media : Water spray, dry chemical, CO2 or foam.

Special Fire Fighting Procedure : Firefighters should wear self contained breathing apparatus and proper eye and skin protection. Use water spray to cool nearby containers and structures exposed to fire.

Unusual Fire & Explosion Hazards : Supposed none.

Toxic Gas Produces : CO, CO2.

Explosion Date-Sensitivity to Mechanical Impact : None identified.

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution : Avoid heat, flames, sparks and other sources of ignition.

Environmental Precautions : Small spills : Collect spilled material in appropriate container for disposal. Move containers away from spill to a safe area. Large spills : Wet down area with water. Dike for later disposal. Remove sources of ignition.

Methods for Cleaning up/Taking up : Clean up residue with a high-efficiency particulate filter vacuum.

7. HANDLING AND STORAGE

Handling : Avoid eye and skin contact. Use adequate general or local exhaust ventilation to keep dust levels as low as possible.

Storage : Keep containers tightly closed and protect from physical damage.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Ingredients with occupational exposure limits to be monitored:

OSHA PEL 8H TLV-TWA 15mg/m3

ACGIH TLV 10.0mg/m3 (Total)

Ventilation : Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

Personal Protection

Respiratory : A NIOSH approved particulate filter respirator is recommended if excessive dust is generated.

Eye : Safety goggles

Hand : Rubber gloves

Body : Safety uniform

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor : Black cylindrical pellet. Odorless.

Specific Gravity : 2.0-2.2g/ml real density

Bulk Density : 0.67-0.72g/ml

Flammable Limits : Upper-N/A Lower-N/A

Ignition Point : 400degrees celsius

Solubility in Water : Insoluble

10. STABILITY AND REACTIVITY

Conditions to Avoid : N/A

Product Stability : Stable under ordinary conditions of use and storage.

Product to Avoid : Strong oxidizers such as ozone of high concentration, liquid oxygen, chlorine, permanganate.

Hazardous Decomposition Products : CO, CO2.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity : Oral LD50 (rat) >5000mg/kg

Carcinogenicity : No specific information available.

Primary Routes of Entry : Eye or skin contact, inhalation.

12. ECOLOGICAL INFORMATION

This material is not harmful to the environment in its original state.

13. DISPOSAL CONSIDERATIONS

Dispose of waste carbon in refuse container consistent with the requirements of local and/or national waste disposal authorities.

EBC Waste Code : N/A

14. TRANSPORT INFORMATION

The product described is not concerned by the actual international guidelines for the transport of dangerous substances.

UN Hazard Class : N/A (Because this product does not cause dangerous self-heating by a judgment test(100 mm sample cube at 140 degrees Celsius) of Division 4.2, it is not a self-heating substance of Division 4.2.)
UN Number : N/A

15. REGULATORY INFORMATION

U. S. Regulations:

SARA TITLE III : Not listed

TSCA : The ingredients of this product are on the TSCA Inventory List.

OSHA : Nonhazardous according to definitions of health hazard and physical hazard provided in the Hazard Communication Standard (29 CFR 1910.1200).

European Regulation

EEC EINECS : The ingredients of this product are listed on the EINECS Inventory.

Risk(R)and Safety(S)Phrases : Not listed

German Regulations

Water Hazard Class : N/A

16. OTHER INFORMATION

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the product.

※N/A:Not Applicable

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