

## **MATERIAL SAFETY DATA SHEET**

Based on the ISO 11014-1 form

Prepared by Research & Development Department Japan EnviroChemicals, LTD.

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MSDS Number : Z30707B  
Product name : Activated carbon  
Brand name : SHIRASAGI S2x 4/6-1  
Manufacturer's name : Japan EnviroChemicals, LTD.  
Address : 3-8 Doshomachi, 2-chome, Chuo-ku, Osaka, Japan  
Phone : +81-6-6204-2420 FAX : +81-6-6204-2441

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Component : Activated carbon  
Chemical name : Carbon  
Formula : C  
CAS No. : 7440-44-0  
EEC/EINECS No. : 231-153-3

### **3. HAZARD IDENTIFICATION**

Ingestion : Practically non-toxic through ingestion.  
Eye contact : Irritation or mechanical injury.  
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 produced : CO, CO2.  
Explosion data-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 TWA 15 mg/m<sup>3</sup>  
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(water=1) : 2.0~2.2 g/ml real density  
Bulk density : 0.39~0.47 g/ml (at JIS K 1474)  
Boiling point : N/A  
Melting point : N/A  
Flash point (closed cup) : N/A  
Flammable limits : Upper - N/A Lower - N/A  
Ignition point : 520 °C  
Solubility in water : Insoluble

## **10. STABILITY AND REACTIVITY**

- Conditions to Avoid : N/A  
Product stability : Stable under ordinary conditions of use and storage.  
Products to Avoid : Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate.  
Hazardous Decomposition Products : CO, CO<sub>2</sub>.

## **11. TOXICOLOGICAL INFORMATION**

- Acute toxicity : Oral LD(rat) > 5g/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.

EEC 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

UN Number : N/A

## **15. REGULATORY INFORMATION**

U.S. Regulations :

SARA TITLE III : N/A

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 Regulations :

EEC EINECS : All of the components of this product are listed on the EINECS Inventory.

Risk (R) and Safety (S) phrases : N/A

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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