

## Material Safety Data Sheet

### 1、 Product and Manufacturer Data

Product name:Carbon Molecular Sieve
Name/Address/Phone of Manufacturer/supplier: E.D.S. International (Thailand) Co.,LTD. 119/134 Moo 6 , Soi Sinthani, Nawamin101 Road, Klongkum, Buengkum, Bangkok 10240 Tel : +66(0) 2 509 5928 ~ 29 Fax: +66(0) 2 509 5930
Phone/Fax in case of emergency:

### 2、 Discrimination data of composition

Pure substance:

Chinese/English Name:Carbon Molecular Sieve
Chemical publish company register number (CAS No.): 308080-99-1
Hazardous composition (composition percentage): None

Mixture:

Chemical characteristics: nonpoisonous, Harmless, Noncombustible, nonexplosive, chemical property is steady.
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### 3、 Discrimination data to hazard

Hazardous effect to the health: The dust have slightly hazard to eyes and respiratory tract..
Effect to the environment: The waste will cause water, soil, air pollution.
Physical and chemical hazard: Does not contain any hazardous ingredients
Special hazard: No specific dangers known.
Main symptom: A lot of inhalation may stimulate the respiratory system, Long-term contact may cause skin burns.
Material's hazard classification: None



#### 4、 Emergency treatment

Different exposure pathways of first aid method:

- Inhaling: Remove to fresh air, resume after a moment of uncomfortable.
- Skin contact: Wash thoroughly with soap and water
- Eye contact: Hand over further treatment in the hospital after washing with plenty of water.
- Inhalation: Send to hospital

Most important symptom and hazardous effect: The serious one has eyes pain to tears, the throat will sore to cough.

Shelter to the first-aid man: Respirator, Goggles.

Suggestion to the doctor: This material is the Natrium Aluminum Silicate.

Water dispersion is alkalescence, pH=7-9.

#### 5、 Putting out a fire

Suitable fire retardant: Noncombustible

Special hazard that may encounter while putting out a fire: No particular hazards known.

Special process of putting out a fire: None.

The fireman's special safeguard: The fire fighters wear a self-contained breathing apparatus, wear fireproof and blast-proof clothing.

#### 6、 Treatment of spillage

To individual: Avoiding taking in the dust and eyes exposed. Wear chemical protective clothing

To environment: Chemicals are strictly prohibited to the environmental emissions of untreated

Cleaning method: Collect the castoff into the special container and handle collectedly. Don't leave around the castoff.

#### 7、 Method safely of handle and store

Handling: The operator should wear helmets, safeguard glasses and respirator. Open container slowly. Keep adequate ventilation. Avoid dust contact with eyes and skin.

Storing: This product should be stored in a cool, dry, well ventilated warehouse, and the warehouse temperature is not more than 25°C, relative humidity is less than 75%. Be care carrying and prevent from raining. The packaging must be sealed, avoid damp.

It Should be with a reducing agent, active metal powder stored separately, avoid mixing reservoir

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## 8、 Probation for exposure

Project control: Pay attention to preventing the dust from flying in the course of operating
Control parameter:
Personal safeguard: <ul style="list-style-type: none"><li>• Respiration protection: respirator</li><li>• Hands protection: Glove.</li><li>• Eyes protection: Goggles</li><li>• Protection of skin and body: Wearing the work clothes with long sleeves</li></ul>
Hygiene measure: Take a shower in time after operating and keep hygiene

## 9、 Physical/Chemical characteristics

Physical nature: Solid	Figure: cylinder
Color: Blac	Smell: Odorless
Adsorption pressure:0.75-0.80MPA	Adsorption Rate:2*55s
Bulk Density $\geq 0.68\text{g/ml}$	Crush Strength $\geq 75\text{N/pieces}$
Melting point: N/A	Solubility:Insoluble in water and organic solvents, soluble in strong acid or alkali

## 10、 Stability and reactance

Stability: Yes
Possible hazard reaction under the special condition: The dust breaks up and does not benefit the respiratory system.
Condition to avoid: Don't leave around castoff
Material to avoid: Water
Hazardous decomposer: None

## 11、 Toxicity data

Urgent toxicity: None
Partial effect: None
Ability of cause sensitive: None
Chronic toxicity or long-term toxicity: None
special effect : None

## 12、 ecology data

Possible environmental impact/distribution: The flying dust will pollutes the air,it is harmful to the environment.

## 13、 Castoff treatment

Waste Disposal Method: In compliance with local, national government regulations under the conditions conducive to environmental protection way to bury waste.

## 14、 delivery documents

Regulation of international delivery: Not classified as a dangerous good under transport regulations

Number of The United Nations: None

Special delivery method and precautions: Not classified as a dangerous good under transport regulations

Special delivery method and precautions : Anti exposure,rain proof,high temperature during the transportation

## 15、 Regulation data

Suitable regulation:No special provisions for the product

## 16、 Others

Table-making company	Name: E.D.S. International (Thailand) Co.,LTD.
Making date	Mar. 15 <sup>th</sup> ,2018

E.D.S. International (Thailand) Co.,LTD.