

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Molecular Sieve  
Product Number: MSD5, MSD50B, MSD325, MSD50BLDA  
Company: C.R. Laurence  
Address: 2503 E. Vernon Avenue,  
Los Angeles, CA 90058  
Phone: 1-800-421-6144  
Emergency Phone: 1-800-424-9300

## SECTION 2 – HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008

### Physical Hazards:

Not classified

### Health Hazards:

Carcinogenicity (Category 1), STOT – Single exposure (Category 1) (Respiratory system), STOT – Single exposure (Category 3) (Respiratory irritation), STOT – Repeated exposure (Category 1) (Respiratory system, kidney)

### Environmental Hazards:

No data available.

Label Elements (EC No 1272/2008):

Signal Word: Danger

### Hazard Statements:

May cause cancer.

Causes damage to organs: respiratory system.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: respiratory system, kidney.

### Precautionary Statements:

Wash thoroughly after handling.

Wear protective gloves/eye protection/face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes.

Dispose of contents/container according to regulations.

Directive 1999/45/EC Classification:

R45, Xi R37, T R39/23, T R48/23

### Risk Phrases:

R45 May cause cancer.

R37 Irritating to the respiratory system.

R39/23 Toxic: danger of very serious irreversible effects through inhalation.

R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

### Safety Phrases:

S1/2 Keep locked up and out of reach of children.

S22 Do not breathe dust.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 Seek medical advice immediately in case of accident.

S53 Avoid exposure – obtain special instructions before use.

## SECTION 3 – INFORMATION ON INGREDIENTS

Ingredient	Concentration	CAS No.	EC No.
Zeolite	>70%	1318-02-1	215-283-8
Clay		14808-60-7	238-878-4

## SECTION 4 – FIRST-AID MEASURES

Skin Contact:

Flush with plenty of water. Remove contaminated clothing. Seek medical attention if irritation persists.

Eye Contact:

Flush with water for at least 15 minutes. Remove contact lenses if possible. Seek medical attention if irritation persists.

Inhalation:

Move to fresh air. Provide oxygen if breathing is difficult. Provide artificial respiration if not breathing.

Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical attention.

Most Important Symptoms:

No data available.

## SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, water spray, CO<sub>2</sub>, foam.

Special Hazards:

May decompose at high temperatures to form silicon oxides and aluminum oxides.

Firefighter Protection:

Wear self-contained breathing apparatus and protective clothing.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Use PPE. Avoid breathing dust. Ensure ventilation.

Environmental Precautions:

Do not allow product to enter drains.

Cleanup Methods:

Sweep up and place in a dry, clean container. Avoid dust formation. Ventilate area.

## SECTION 7 – HANDLING AND STORAGE

Handling:

Wear protective clothing and gloves. Avoid dust formation and inhalation. Keep away from ignition sources.

Storage:

Store in a cool, dry, well-ventilated place. Keep container tightly closed. Avoid incompatible materials (strong acids/bases, HF, oxidizers, vinyl compounds, etc.).

## SECTION 8 – EXPOSURE CONTROL / PPE

Quartz Exposure Limit:

ACGIH TLV-TWA: 0.025 mg/m<sup>3</sup> (A2)

Engineering Controls:

Mechanical exhaust, safety shower, eye wash.

PPE: Respirator, Chemical safety glasses, Protective clothing, Protective gloves

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property:	Value
Appearance:	Brown ball granule
Odor:	Weak odor
Melting Point:	>350°C
pH:	10.2 (25°C, 50 g/L)
Solubility:	Slightly soluble in water

## SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Moisture.

Incompatible Materials: Strong acids/bases, HF, oxidizers, vinyl compounds, etc.

Decomposition Products: Silicon oxides, aluminum oxides.

## SECTION 11 – TOXICOLOGICAL INFORMATION

No acute toxicity data available.

IARC:

Group 1 (crystalline silica)

Group 3 (zeolites other than erionite)

Causes respiratory irritation and organ damage with repeated exposure.

## SECTION 12 – ECOLOGICAL INFORMATION

No data available for toxicity, persistence, bioaccumulation, or mobility.

## SECTION 13 – DISPOSAL CONSIDERATION

Dispose through licensed waste contractor. May be incinerated with afterburner and scrubber.

## SECTION 14 – TRANSPORT INFORMATION

RID/ADR: Non-hazardous

IATA: Non-hazardous

IMO: Non-hazardous

Bulk Transport: Not applicable

## SECTION 15 – REGULATORY INFORMATION

No additional regulatory data available.

## SECTION 16 – OTHER INFORMATION

Date: March 2026

Department: Shanghai Research Institute of Chemical Industry Testing Centre

Reference Standard: (EU) No 453/2010