

Molecular Sieve SDS

Section 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: mSORB 3A, 4A, 5A, 13X

Synonym: Synthetic zeolite

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Adsorbent/Desiccant

1.3 Details of the supplier of the safety data sheet

Interra Global Corporation
800 Busse Highway, Ste 101
Park Ridge, IL 60068 USA

1.4 Emergency Telephone Number: 1.847.292.8600

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification in accordance with 29 CFR 1910 (OSHA HCS) Skin irritation (Category 3), H316 Eye irritant (Category 2B), H320 Specific organ toxicity – single exposure (Category 3), Respiratory system, H335

2.2 GHS label elements, including precautionary statements

Pictogram:



Warning

Signal word: Warning

Hazard statement(s):

H316 Causes mild skin irritation

H320 Causes eye irritation

H335 May cause respiratory irritation

Precautionary statement(s):

P261 Avoid breathing dust

P264 Wash hands thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P312 Call a POISON CENTER if you feel unwell

P332 + P313 If skin irritation occurs: Get medical advice

P227 + P313 If eye irritation persists: Get medical advice

P403 + P233 Store in well-ventilated place. Keep container tightly closed

P501 Dispose of contents/container in accordance with local regulation(s)

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3: COMPOSITION & INFORMATION ON INGREDIENTS

Chemical identity : Molecular Sieve; 3a,4a,5a,13x

Common name : Zeolite, synthetic

Numbers of identity:

CAS-Nr.:1318-02-1 (mSorb 3a)

CAS-Nr.: 1344-00-9 (mSorb 4a)

CAS Nr.: 69912-79-4 (mSorb 5a)

CAS Nr.: 63231-69-6 (mSorb 13X)

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a qualified medical professional. Show this data sheet to the doctor in attendance. Move out of the dangerous area.

If ingested: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, get medical attention immediately. Loosen tight clothing such as a collar, tie, or belt.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Eye Contact: Flush eyes with plenty of water. Check for and remove any contact lenses if possible. Continue flushing eyes with water for at least 15 minutes. Get medical attention if irritation occurs.

Inhalation: Move individual to fresh air.

4.2 Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or section 11.

4.3 Indication of any immediate medical attention and special treatment needed: No data available

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media: Product is non-flammable

5.2 Special hazards arising from the substance or mixture: Spent or used product may contain adsorbed flammable or otherwise hazardous substances upon exposure to heat or water. Product user must identify adsorbed substances and inform firefighters of potential hazards.

5.3 Advice for firefighters Special protective equipment – standard PPE and equipment. Active product gives off heat when exposed to water and can burn tissue. Flush with water to dissipate the heat. If dusty conditions prevail, a dust mask is recommended.

	HMIS	NFPA
Health	1	1
Flammability	0	0
Reactivity	0	1

Specific methods – no special methods required

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions: Not applicable.

6.3 Methods and materials for containment and cleaning up: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Dispose of material according to local and regional requirements.

Section 7: HANDLING & STORAGE

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe dust. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities: Suitable for any general chemical storage area. Keep container tightly closed. Do not store super sacks outside; ultraviolet radiation and other adverse conditions will negatively impact its integrity and may eventually cause the bag to fail.

7.3 Specific end use(s): Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters/exposure limits

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Zeolite (CAS No. 1318-02-1)	10 mg/m3 (TWA)	3 mg/m3 (TWA)	15 mg/m3 (TWA)	5 mg/m3 (TWA)

Appropriate engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to limit airborne levels. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Personal protective equipment: Safety glasses, lab coat, and dust respirator. Be sure to use an NIOSH

Section 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Solid (Beads/Powder)
Color : White, Grey, Beige
Odor : Odorless
Odor threshold : No data available
pH-value : No data available
Melting point : No data available
Freezing Point : No data available
Initial boiling point : No data available
Flash point : No data available
Evaporation rate : No data available
Flammability (solid, gas) : Non-flammable
Explosion limits : No data available
Vapor pressure : No data available
Vapor density : No data available
Relative density : 550-850g/L
Solubility : No data available
Partition coefficient : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available

Section 10: STABILITY & REACTIVITY

10.2 Chemical stability: The product is stable under normal ambient and anticipated storage and handling conditions of temperature and storage.

10.3 Possibility of hazardous reactions: Used product may release adsorbed hazardous materials upon exposure to heat, humid air, or water.

10.4 Conditions to avoid: See section 10.3.

10.5 Incompatible materials: Prevent unintentional contact with water or moisture.

10.6 Hazardous decomposition products: Not applicable.

Section 11: TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity

Inhalation : LC50 rat > 18.3 mg/L
Ingestion : LD50 rat > 10,000 mg/kg
Dermal : LD50 rabbit > 2000 mg/kg

Short term single exposure unlikely to cause skin irritation. Ingestion, inhalation, or contact with eyes or mucous membranes may cause irritation or thermal burns. Asthma and chronic respiratory conditions may be aggravated by exposure to this product.

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity following single exposure: Inhalation – May cause respiratory irritation.

Specific target organ toxicity following repeated exposure: No data available

Aspiration hazard: Dust may irritate lungs.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity: No data available.

12.2 Persistence and degradability: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Product: Dispose of in accordance with federal, state, and local environmental control regulations. Contaminated packaging: Packaging may contain residual dust. Dispose of in accordance with federal, state, and local environmental control regulations.

Section 14: TRANSPORT INFORMATION

DOT (U.S.A.): Not a dangerous good.

IMDG: Not a dangerous good.

Transport hazard classes: Not applicable.

Packing group: Not applicable.

Environmental hazards: See section 12.

Transport in bulk: Not applicable.

Special precautions for users: Not applicable.

Section 15: REGULATORY INFORMATION

15.1 Federal and state regulations:

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (de Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards Acute health hazard

Massachusetts Right to Know Components No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components Molecular Sieve 3A, 4A, 5A, 13X CAS-No.: not available
Revision date: not available

New Jersey Right to Know Components Molecular Sieve 3A, 4A, 5A, 13X CAS-No.: not available
Revision date: not available

California Proposition 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

DOT Classification Not a DOT controlled material (United States)

15.2 Other classifications

WHMIS (Canada) Not controlled.

DSCL (EEC) This product is not classifiable according to the EU regulations.

HMIS (U.S.A.) Health hazard 1 Fire hazard 0 Reactivity 0 Personal protection : E

National Fire Protection Association (U.S.A.) Health 1 Flammability 0 Reactivity 1

Toxic Control Substances Act (TSCA) This product complies with all applicable rules or orders under the Toxic Control Substances Act (TSCA).

Section 16: OTHER INFORMATION

Warranty

The information contained herein is based upon data considered true and accurate. However, Interra Global Corp. makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation and verification. Since the use and conditions of this information and the material described herein are not within the control of Interra Global Corp., it assumes no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to Interra Global Corp's Terms and Conditions of Sale, including those limiting warranties and remedies contained therein. It is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state or local laws and regulations.