

MATERIAL SAFETY DATA SHEET



mSORB® 3A



Health	1
Fire	0
Reactivity	1
Personal Protection	E

Section 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<p>Product Name: mSORB® 3A</p> <p>Product Number: ms3a</p> <p>Chemical Name: Molecular Sieve, Type 3a</p> <p>Emergency Assistance</p> <p>USA (CHEMTREC) + 1.800.424.9300</p> <p>Canada (CANUTEC) + 1.613.966.6666</p> <p>Outside USA (CHEMTREC) + 1.703.527.3887</p>	<p>Supplier Information</p> <p>Interra Global Corporation</p> <p>371 Edgemont Lane</p> <p>Park Ridge, IL 60068</p> <p>USA</p> <p>Telephone: + 1.847.292.8600</p> <p>Fax: + 1.847.292.8601</p>
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Section 2: COMPOSITION & INFORMATION ON INGREDIENTS

<p>CAS Number: 1318-02-1 or 55465-40-4</p> <p>Molecular Formula: 0.6 K₂O: 0.4 Na₂O: 1 Al₂O₃: .2.0±0.1 SiO₂:H₂O</p>
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Section 3: HAZARDS IDENTIFICATION

<p>Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion of inhalation.</p> <p>Potential Chronic Health Effects: 3 (Not classifiable for human.) by IARC</p> <p>CARCINOGENIC EFFECTS: Not available.</p> <p>MUTAGENIC EFFECTS: Not available.</p> <p>TERATOGENIC EFFECTS: Not available.</p> <p>DEVELOPMENTAL TOXICITY: Not available.</p> <p>The substance may be toxic to lungs.</p> <p>Repeated or prolonged exposure to the substance can produce target organs damage.</p>
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Section 4: FIRST AID MEASURES

<p>Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.</p> <p>Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.</p> <p>Serious Skin Contact: Not available.</p> <p>Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</p> <p>Serious Inhalation: Not available.</p>

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Ingestion: 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.

Serious Ingestion: Not available.

Section 5: FIRE & EXPLOSION DATA

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of mechanical impact: Not available

Risks of explosion of the product in presence of static discharge: Not available

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Powerful oxiders may cause fire. [Quartz]

Special Remarks on Explosion Hazards: Powerful oxiders or metals may cause explosions.[Quartz]

Section 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. **Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: HANDLING & STORAGE

Storage: Keep container tightly closed. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves

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Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits: Not available.

Section 9: PHYSICAL & CHEMICAL PROPERTIES

Physical state and appearance:	Solid (Beads)	Specific Gravity:	2.1 (Water=1)
Odor:	Odorless	Vapor Pressure:	Not applicable.
Taste:	Not available.	Vapor Density:	Not available.
Molecular Weight:	Not available.	Volatility:	Not available.
Color:	White, Grey	Odor Threshold:	Not available.
pH (1% soln/water):	Not applicable.	H₂O/Oil Dist Coeff:	Not available.
Boiling Point:	Not available.	Ionicity (in Water):	Not available.
Melting Point:	Not available.	Dispersion Prop.:	Not available.
Critical Temperature:	Not available.	Solubility:	Not available.

Section 10: STABILITY & REACTIVITY

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, moisture (absorbs water with evolution of heat), dust generation.

Incompatibility with various substances: Slightly reactive to reactive with moisture.

Corrosivity: Not available.

Special Remarks on Reactivity: Hygroscopic. Reacts with water to evolve heat.

Incompatibility with powerful oxidizers: Fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, hydrogen peroxide, etc.; Incompatible with acetylene and ammonia. This chemical is attacked by Hydrogen Fluoride. Silica will dissolve in Hydrofluoric Acid and produce the corrosive gas Silicon Tetrafluoride (SiF₄). [Quartz]

Special Remarks on Corrosivity: Not available.

Polymerization: Yes.

Section 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available.

LC50: Not available.

Special Remarks on Toxicity to Animals: Not available.

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Chronic Effects on Humans:

CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: lungs

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation

Special Remarks on Chronic Effects on Humans: May contain up to 3% crystalline quartz which has been determined to be an IARC class 1 carcinogen.

Special Remarks on other Toxic Effects on Humans: Not available.

Acute/Chronic Potential Health Effects:

Skin: May cause skin irritation. The product gets hot as it adsorbs water. Burns to moist or wet skin tissue may result if contact is prolonged

Eyes: Dust may cause eye irritation.

Ingestion: The product gets hot as it first adsorbs water. Burns to moist body tissues may result if contact is prolonged.

Inhalation: Exposure to dust particles generated from this material may cause irritation of the respiratory tract and may cause lung damage (silicosis, etc)/cancer. Repeated and prolonged inhalation of crystalline silica in the form of quartz from occupational sources may cause cancer.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

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Section 15: OTHER REGULATORY INFORMATION

Federal and State Regulations: California, Massachusetts, New Jersey, Pennsylvania : Siliporite

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 1

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 1

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Safety glasses.

Section 16: OTHER INFORMATION

References: Not available.

Other Special Considerations: Not available.

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The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warrant of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Interra Global Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Interra Global Corporation has been advised of the possibility of such damages.