
SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product identifiers

Product Name : ZSM-48 ZEOLITE
Chemical Name : ZSM-48 Zeolite
CAS-No. : 1318-02-1
Wt. % : 100%
OSHA PEL : 15mg/m³ total dust; 5mg/m³ respirable
ACGIH TLV : 10mg/m³ respirable; 3mg/m³ respirable

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

Identified uses : These chemicals are intended solely for use in laboratory experiments or research and development. They are not suitable for either drug or household use.

1.3 Details of the supplier of the safety data sheet

Company : ACS Material LLC

Address : ACS Material LLC
959 E Walnut, Suite 100
Pasadena, CA 91106, USA

Telephone : +1 (866)-227-0656
E-mail : contacts@acsmaterial.com
Office Hours : 9:00 — 17:00 PST

1.4 Emergency telephone number

Europe : 112 or 999
Asia : 110 (China, Japan, Taiwan), 119
North America : 911
South America : 911
Africa : As appropriate for your country
Australia : 000 (Australia), 111 (New Zealand)

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview: White, odorless, powder. Causes respiratory irritation. Causes mild eye irritation. May cause skin irritation. Ammonia released on contact with strong bases. Noncombustible. Ammonia or nitrogen oxides may be released at high temperatures.

Eye Contact : Causes mild eye irritation.
Skin Contact : Prolonged or repeated contact may dry skin and cause irritation.

Inhalation	:	Causes irritation.
Ingestion	:	No known hazards. Inedible.
Chronic Hazards	:	No known hazards.
Physical Hazards	:	Absorbs water from air and fluids. Generates heat when it absorbs water.

SECTION 3: FIRST AID MEASURES

Eye	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Skin	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Inhalation	:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	:	Not applicable.

SECTION 4: FIRE FIGHTING MEASURES

Flammable limits	:	This material is noncombustible.
Extinguishing media	:	This material is compatible with all extinguishing media.
Hazards to fire-fighters	:	Ammonia or nitrogen oxides may be released at high temperature.
Firefighting equipment	:	The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: self-contained breathing apparatus (SCBA), chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots.

SECTION 5: ACCIDENTAL RELEASE MEASURES

Personal Protection :	Wear safety goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots, NIOSH-approved dust respirator where dust occurs. See section 8.
Environmental Hazards:	Sinks in water. No known environmental hazards.
Small Spill Cleanup :	Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE). See section 8.

Large Spill Cleanup :	Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE). See section 8.
CERCLA RQ :	There is no CERCLA Reportable Quantity for this material. If a spill goes off site, notification of state and local authorities is recommended.

SECTION 6: HANDLING AND STORAGE

Handling :	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Promptly clean up spills. Wash thoroughly after handling
Storage :	Keep containers closed. Store separated from strong bases in original containers or clean metal, plastic, or fiber containers.

SECTION 7: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use with adequate ventilation. Safety shower and eyewash fountain should be within direct access.
Respiratory Protection:	Use a NIOSH-approved dust respirator where dust occurs. Observe OSHA regulations for respirator use (29 C.F.R. §1910.134)
Skin Protection :	Wear body-covering protective clothing and gloves.
Eye Protection :	Wear safety goggles.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	White powder.
Odor :	Odorless.
pH :	Not applicable.
Specific Gravity :	>1.
Solubility in Water :	Negligible.

SECTION 9: STABILITY AND REACTIVITY

Stability :	This material is stable.
Conditions to Avoid :	None.
Materials to Avoid :	Ammonia may be released on contact with strong bases.
Hazardous Decomposition Products: Ammonia, nitrogen oxides.	

SECTION 10: TOXICOLOGICAL INFORMATION

Acute Data :	When tested for primary irritation potential, similar materials caused mild eye irritation and were slightly irritating or non-irritating to the skin. Human experience with similar materials indicates that
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prolonged or repeated contact may dry skin and cause irritation.
This material has not been tested for acute inhalation toxicity.
It contains fine particles which can cause respiratory irritation.
The acute oral toxicity of this material has not been tested.
There are currently no reports of human toxicity for ingested zeolite.
Subchronic Data : This material has not been tested for subchronic toxicity potential.
Special Studies : This material has not been tested for chronic inhalation toxicity.
Zeolite Beta is not listed by NTP, IARC, or OSHA as a carcinogen.

SECTION 11: ECOLOGICAL INFORMATION

Eco Toxicity : This material has not been tested for ecotoxicity potential.
There are presently no known reports of adverse environmental effects.
Environmental Fate : Does not bioconcentrate in animals.
Physical/Chemical : Sinks in water.

SECTION 12: DISPOSAL CONSIDERATIONS

Classification : This material is not RCRA Hazardous waste.
Disposal Method : Dispose in accordance with federal, state and local regulations.

SECTION 13: TRANSPORT INFORMATION

DOT UN/IATA Status: This material is not regulated hazardous material for transportation.
The MSDS should be under IATA DGR 56th edition (revision date: year 2015).

SECTION 14: REGULATORY INFORMATION

CERCLA : See section 6.
SARA TITLE III : This material is not a listed Toxic Chemical subject to the reporting requirements of SARA Title III §313 and 40 C.F.R. Part 372.
Hazard Categories under SARA Title III § 311/312: Acute.
TSCA : All ingredients of this material are listed on the TSCA inventory.

SECTION 15: OTHER INFORMATION

Disclaimer: The information on this safety data sheet is believed to be accurate and it is the best. Information available to ACS Material, LLC. This document is intended only as a guide to the Appropriate precautions for handling a chemical by a person trained in chemical handling. ACS Material, LLC makes no warranty of merchantability or any other warranty, express or implied with respect to such information or the product to which it relates, and we assume no liability resulting from the use or handling of the product to which this safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.