

SAFETY DATA SHEET

ABSORBINATOR™ 3Å MOLECULAR SIEVE POWDER



1 IDENTIFICATION

PRODUCT IDENTIFIER

Product Name: ABSORBINATOR™ 3Å MOLECULAR SIEVE POWDER

RECOMMENDED USE AND RESTRICTIONS OF USE

Recommended Use: Molecular sieve, desiccant, adsorbent

Restrictions of Use: This material is not intended for use in products for which prolonged contact with mucous membranes, body fluids or abraded skin, or implantation within the human body, is specifically intended, unless the finished product has been tested in accordance with nationally and internationally applicable safety testing requirements. Because of the wide range of such potential uses, we are not able to recommend this material as safe and effective for such uses and assume no liability for such uses.

NAME, ADDRESS, AND TELEPHONE NUMBER OF THE RESPONSIBLE PARTY

Company: M Chemical Company, Inc.
 Address: 825 Colorado Boulevard, Suite 214
 Los Angeles, CA 90041 USA
 Telephone: (323) 254-3600

EMERGENCY TELEPHONE NUMBER

CHEMTREC: 1 (800) 424-9300 [Contract number 225543]
 Contact only in the event of chemical emergencies involving spill, leak, exposure, or accident involving this chemical.

2 HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE

USA: This product is classified as hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR §1910.1200).

Hazard(s): SKIN CORROSION/IRRITATION (CATEGORY 2)
 EYE DAMAGE/IRRITATION (CATEGORY 2A)
 SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE (CATEGORY 3)

SIGNAL WORD, HAZARD STATEMENTS, SYMBOLS, & PRECAUTIONARY STATEMENTS

Signal Word: WARNING
 Hazard Statement(s): Causes skin irritation
 Causes serious eye irritation
 May cause respiratory irritation

Hazard Pictogram(s):



Precautionary Statements:

- Wash thoroughly after handling. Wear eye protection/face protection, and protective gloves.
- Avoid breathing dust. Use only outdoors or in a well-ventilated area.

SAFETY DATA SHEET

ABSORBINATOR™ 3Å MOLECULAR SIEVE POWDER

- IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

None known

OTHER CLASSIFICATIONS

NFPA



HMIS®

| | |
|-----------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 1 |

3 COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following component(s) which are classified as hazardous to health (*i.e.* above the relevant cut-off value for any particular health hazard) according to the 2012 OSHA Hazard Communication Standard (29 CFR §1910.1200).

| Chemical Name | CAS No. | Wt. % |
|-------------------------|------------|-------|
| Molecular Sieve type 3Å | 1318-02-01 | ~ 100 |

4 FIRST AID MEASURES

DESCRIPTION OF NECESSARY MEASURES

| | |
|------------|---|
| Eyes | In case of contact with eyes, rinse immediately with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Get medical attention if irritation persists. |
| Inhalation | Remove to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical attention if respiratory irritation occurs. |
| Skin | Wash immediately with plenty of water. Get medical attention if irritation or rash occurs. |
| Ingestion | Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have person lean forward to reduce the risk of aspiration. Get medical attention immediately. |

MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED

| | |
|------------|--|
| Eyes | Causes serious eye irritation. |
| Inhalation | Inhalation of dust may cause respiratory irritation. |
| Skin | Causes skin irritation. |
| Ingestion | May be harmful if swallowed. |

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Notes to Physician: no information available

SAFETY DATA SHEET

ABSORBINATOR™ 3Å MOLECULAR SIEVE POWDER

5 FIRE FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA

Suitable Use extinguishing media appropriate for the surrounding fire.
Unsuitable None known

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Non-flammable material. Adsorption of water is exothermic.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Standard protective equipment for fighting chemical fires should be used, including self contained breathing apparatus (SCBA) and full fire fighting turn-out gear.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Do not breathe dust. Avoid personal contact. Wear personal protective equipment (See Section 8: Exposure Controls / Personal Protection). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Adsorption of water is exothermic.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Sweep up and collect material into suitable containers for reuse or disposal (See Section 13: Disposal Considerations).

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not breathe dust and avoid personal contact. Wear personal protective equipment (See Section 8: Exposure Controls / Personal Protection). Use only with outdoors or with adequate ventilation. Do not eat, drink, or use tobacco products while working.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a cool, dry, and well-ventilated place. Adsorption of water is exothermic and can also affect product quality.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROL LIMITS

| | |
|---|----------------------|
| Molecular Sieve type 3Å CAS No. 1318-02-01 | Not applicable (N/A) |
|---|----------------------|

APPROPRIATE ENGINEERING CONTROLS

Work in well ventilated areas. The use of local exhaust ventilation is recommended to control air contaminants. Provide mechanical ventilation for confined spaces. Use mechanical handling to reduce human contact with materials.

INDIVIDUAL PROTECTIVE MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

General Hygiene Avoid breathing dust. Avoid contact with eyes and skin. Wash thoroughly after handling and before eating, drinking, or using

SAFETY DATA SHEET

ABSORBINATOR™ 3Å MOLECULAR SIEVE POWDER

| | |
|------------------------|--|
| | tobacco products. Eye wash station and safety shower should be available in the immediate work area. |
| Eye/Face Protection | Wear safety glasses with side shields or safety goggles. |
| Skin Protection | Wear protective gloves impervious to the conditions of use and protective clothing. Recommended materials for protective gloves include PVC, rubber, and other plastics. |
| Respiratory Protection | Wear NIOSH-approved respiratory protection if exposure to airborne dust is possible and in non-routine or emergency situations. |

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------------|---------------------------|
| Appearance | white fluffy powder |
| Odor | no information available |
| Odor Threshold | no information available |
| Physical State | solid |
| pH value | 8-11 (aqueous slurry) [1] |
| Freezing Point | no information available |
| Boiling Point | no information available |
| Flash Point | no information available |
| Evaporation Rate | no information available |
| Flammability | no information available |
| Upper Flammability Limit | no information available |
| Lower Flammability Limit | no information available |
| Vapor Pressure | no information available |
| Vapor Density | no information available |
| Specific Gravity | 1.1 [1] |
| Solubility in water | no information available |
| Partition Coefficient (octanol/water) | no information available |
| Autoignition Temperature | no information available |
| Decomposition Temperature | no information available |
| Viscosity | not applicable (N/A) |

10 STABILITY AND REACTIVITY

REACTIVITY

Adsorption of water is exothermic.

CHEMICAL STABILITY

This substance is expected to be stable under normal conditions of storage and use.

POSSIBILITY OF HAZARDOUS REACTIONS

Adsorption of water is exothermic.

CONDITIONS TO AVOID

Exposure to moisture

INCOMPATIBLE MATERIALS

Hydrogen fluoride, strong acids, strong bases, strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

None known

SAFETY DATA SHEET

ABSORBINATOR™ 3Å MOLECULAR SIEVE POWDER

11 TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE, ACUTE AND DELAYED

| | |
|----------------------|--|
| Eyes | Causes serious eye irritation. |
| Inhalation | Inhalation of dust may cause respiratory irritation. |
| Skin | Causes skin irritation. |
| Ingestion | May be harmful if swallowed. |
| Target Organ Effects | no information available |
| Chronic Effects | no information available |

ACUTE TOXICITY

| | |
|------------|--------------------------|
| Oral | no information available |
| Inhalation | no information available |
| Dermal | no information available |

SKIN CORROSION / IRRITATION

no information available

EYE DAMAGE / IRRITATION

no information available

SENSITIZATION

| | |
|---------------------------|--------------------------|
| Respiratory Sensitization | no information available |
| Skin Sensitization | no information available |

GERM CELL MUTAGENICITY

no information available

CARCINOGENICITY

No information available. None of the components in this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

REPRODUCTIVE TOXICITY

no information available

TARGET ORGAN TOXICITY

| | |
|---------------------------|--------------------------|
| Single Exposure | no information available |
| Repeat/Prolonged Exposure | no information available |

ASPIRATION HAZARD

no information available

12 ECOLOGICAL INFORMATION

ECOTOXICITY

| | |
|--------------------------------|--------------------------|
| Acute toxicity - fish | no information available |
| Acute toxicity - algae | no information available |
| Acute toxicity - invertebrates | no information available |
| Acute toxicity - bacteria | no information available |

PERSISTENCE AND DEGRADABILITY

no information available

BIOACCUMULATIVE POTENTIAL

no information available

MOBILITY IN SOIL

SAFETY DATA SHEET

ABSORBINATOR™ 3Å MOLECULAR SIEVE POWDER

no information available

OTHER ADVERSE EFFECTS

no information available

13 DISPOSAL CONSIDERATIONS

Recover or recycle if possible.

Disposal of product and contaminated packaging should be in accordance with applicable local, regional, national, and international laws and regulations. Local regulations may be more stringent than regional or national requirements.

14 TRANSPORT INFORMATION

UN NUMBER

not regulated

UN PROPER SHIPPING NAME

not regulated

TRANSPORT HAZARD CLASS(ES)

not regulated

PACKING GROUP

not regulated

ENVIRONMENTAL HAZARD(S)

none known

TRANSPORT IN BULK

no information available

OTHER INFORMATION

Not classified as a hazardous material under US DOT regulations.

15 REGULATORY INFORMATION

INVENTORY STATUS

no information available

USA FEDERAL SARA TITLE III RULES

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

Section 304 No components of this material are regulated under SARA Title III, Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" list).

Section 313 This material does not contain any component(s) listed on the Section 313 Toxic Chemical List.

Section 311/312 Hazards: Acute health hazard

USA STATE REGULATIONS

no information available

16 OTHER INFORMATION

SAFETY DATA SHEET

ABSORBINATOR™ 3A MOLECULAR SIEVE POWDER

REVISION DATE
August 19, 2016

REASONS FOR REVISION
Compliance with 29 CFR §1910.1200 (GHS)

REFERENCES
1. M Chemical data

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