

## SAFETY DATA SHEET

Preparation Date: 11/14/2018

Revision Date: 11/14/2018

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** M1305  
**Product Name:** MOLECULAR SIEVE, TYPE 13X, 1/16 IN. PELLETS, PELLETS

#### Other means of identification

**Synonyms:** No information available  
**CAS #:** No CAS number  
**RTECS #** Not available  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not classified

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Zeolite	1318-02-1	>70
Mineral Binder	NCAS	<30
Quartz (Crystalline Silica)	14808-60-7	<5

### 4. FIRST AID MEASURES

#### First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If eye irritation persists, consult a specialist.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Health injuries are not known or expected under normal use

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician:** Treat symptomatically.

#### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

#### Specific hazards arising from the chemical

**Hazardous Combustion Products:** No information available.

**Specific hazards:** No information available.

#### Special Protective Actions for Firefighters

**Specific Methods:**

No information available.

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid dust formation.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials. Store at room temperature in the original container.

**Incompatible Materials:**

Acids  
Alkalis  
Moisture  
Water

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

##### United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Zeolite	1318-02-1	None	None	None	None
Mineral Binder	NCAS	None	None	None	None
Quartz (Crystalline Silica)	14808-60-7	50 µg/m <sup>3</sup> TWA (250)/(%SiO <sub>2</sub> + 5)	0.05 mg/m <sup>3</sup> TWA	0.025 mg/m <sup>3</sup> TWA respirable particulate	None

**Product code:** M1305

**Product name:** MOLECULAR SIEVE,  
TYPE 13X, 1/16 IN. PELLETS,  
PELLETS

**3 / 12**

		mppcf TWArespirable fraction (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWArespirable fraction		matter	
--	--	--	--	--------	--

**Canada**

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Zeolite	1318-02-1	None	None	None	None
Mineral Binder	NCAS	None	None	None	None
Quartz (Crystalline Silica)	14808-60-7	0.025 mg/m <sup>3</sup> TWA respirable particulate	0.025 mg/m <sup>3</sup> TWA respirable	None	None

**Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Zeolite	1318-02-1	None	None
Mineral Binder	NCAS	None	None
Quartz (Crystalline Silica)	14808-60-7	0.1 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup> TWA

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**

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.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:** Safety glasses with side-shields.

**Skin and body protection:** Long sleeved clothing  
apron  
Gloves

**Respiratory protection:** Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:**  
Solid

**Appearance:**  
Pellets.

**Color:**  
Beige. White. Tan.

**Odor:**  
Odorless.

**Taste**  
No information available.

**Formula:**  
No information available

**Product code:** M1305

**Product name:** MOLECULAR SIEVE,  
TYPE 13X, 1/16 IN. PELLETS,  
PELLETS

<b>Molecular/Formula weight (g/mole):</b> No information available	<b>Flammability:</b> No information available	<b>Flashpoint (°C/°F):</b> No information available.
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> 38 lb/ft2	<b>Density (g/cm3):</b> >2.0
<b>Specific gravity:</b> No information available	<b>pH:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Insoluble in water	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reacts with water to evolve heat. When first wetted, the product can heat up to the boiling point of water. Flood with water to cool material. Sudden contact with high concentrations of chemicals having high heats of adsorption such as olefins, hydrochloric acid, etc.

### Chemical stability

**Stability:** Hygroscopic. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials. Exposure to moisture.

**Incompatible Materials:** Acids  
Alkalis  
Moisture  
Water

**Hazardous decomposition products:** No information available.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product code:** M1305

**Product name:** MOLECULAR SIEVE,  
TYPE 13X, 1/16 IN. PELLETS,  
PELLETS

**5 / 12**

**Principal Routes of Exposure:**

Inhalation. Ingestion.

**Acute Toxicity****Component Information**

Zeolite	
CAS-No.	1318-02-1

**LD50/oral/rat** = 5000 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = >2000 mg/kg Dermal LD50 Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 2.4 mg/L Inhalation LC50 Rat 1 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

Mineral Binder	
CAS-No.	NCAS

**LD50/oral/rat** = No information available  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

Quartz (Crystalline Silica)	
CAS-No.	14808-60-7

**LD50/oral/rat** = 500 mg/kg Oral LD50 Rat (from EU Commission - EU Chemicals Bureau - particle size was 10-20 um)  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

**Product Information**

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = No information available

**Product code:** M1305**Product name:** MOLECULAR SIEVE,  
TYPE 13X, 1/16 IN. PELLETS,  
PELLETS**6 / 12**

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

**Symptoms****Skin Contact:** Not likely to cause skin irritation.**Eye Contact:** Not likely to cause eye irritation. This product, which is the form of beads or pellets, is not expected to get into the eyes and cause eye irritation.**Inhalation** This material is in the form of beads or pellets and is unlikely to cause respiratory tract irritation. Although this product contains crystalline silica, the product is in the form of pellets not powder. Therefore the generation of respirable, airborne particles is unlikely to occur when handling the product and cause lung damage (silicosis) or cancer.**Ingestion** The product gets hot as it first adsorbs water. Burns to moist body tissues may result if contact is prolonged.**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** No information available.**Sensitization:** No information available.**Mutagenic Effects:** No information available**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Zeolite	1318-02-1	Group 3 - Not Classifiable - Monograph 68 [1997]	Not listed	Not listed	Not listed	Not listed	Not listed
Mineral Binder	NCAS	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Quartz (Crystalline Silica)	14808-60-7	Group 1 - Carcinogenic to humans - Monograph 100C [2012] Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources Monograph 68 [1997]	A2 Suspected Human Carcinogen	Known Human Carcinogen Silica, crystalline (respirable size)	Present	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)**IARC (International Agency for Research on Cancer)**NTP (National Toxicology Program)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Zeolite - 1318-02-1*

**Freshwater Algae Data:** 18 mg/L EC50 *Desmodesmus subspicatus* 96 h  
**Freshwater Fish Species Data:** 1800 mg/L LC50 *Brachydanio rerio* 96 h semi-static 1 3200 - 5600 mg/L LC50 *Oryzias latipes* 96 h semi-static 1 1800 - 3200 mg/L LC50 *Poecilia reticulata* 96 h semi-static 1  
**Water Flea Data:** 1000 - 1800 mg/L EC50 *Daphnia magna* 48 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**  
 Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**  
 Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Zeolite	1318-02-1	None	None	None	None
Mineral Binder	NCAS	None	None	None	None
Quartz (Crystalline Silica)	14808-60-7	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available

**Product code:** M1305

**Product name:** MOLECULAR SIEVE,  
 TYPE 13X, 1/16 IN. PELLETS,  
 PELLETS



**Hazard Class:** No information available  
**Subsidiary Class** No information available  
**Packing group:** No information available  
**Emergency Response Guide Number** No information available  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** No Information available  
**Symbol(s):** No information available  
**Description:** No information available

**TDG (Canada)**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant** No Information available  
**Description:** No information available

**ADR**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available

**IMO / IMDG**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant** No information available

**RID**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**ICAO**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**IATA**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**ERG Code:** No information available  
**Special Provisions** No information available

## 15. REGULATORY INFORMATION

### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Zeolite	1318-02-1	Not Listed	Present KE-35511	Present	Not present	Present	Present	Present 215-283-8
Mineral Binder	NCAS	Not Listed	Not present	Not present	Not present	Not present	Not present	Not present
Quartz (Crystalline Silica)	14808-60-7	PresentACTIV E	Present KE-29983	Present	Present (1)-548	Present	Present	Present 238-878-4

### U.S. Regulations

Quartz (Crystalline Silica)

Massachusetts RTK: Present


New Jersey RTK Hazardous Substance List: 1660

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

 WARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Zeolite	1318-02-1	Not Listed	Not Listed	Not Listed	Not Listed
Mineral Binder	NCAS	Not Listed	Not Listed	Not Listed	Not Listed
Quartz (Crystalline Silica)	14808-60-7	carcinogen (airborne particles of respirable size)	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Zeolite	1318-02-1	None	None	None	None	None
Mineral Binder	NCAS	None	None	None	None	None
Quartz (Crystalline Silica)	14808-60-7	None	None	None	None	None

### U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Zeolite	1318-02-1	Not Applicable	Not Applicable
Mineral Binder	NCAS	Not Applicable	Not Applicable
Quartz (Crystalline Silica)	14808-60-7	Not Applicable	Not Applicable

### Canada

Product code: M1305

Product name: MOLECULAR SIEVE,  
TYPE 13X, 1/16 IN. PELLETS,  
PELLETS

10 / 12

**WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information: Not a dangerous product according to HPR classification criteria.

Component  
Quartz (Crystalline Silica)  
14808-60-7 (<5)

WHMIS 2015 Hazard Classification  
Carcinogenicity - Category 1A: H350 May cause cancer.; Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.(for respirable crystalline silica)

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Components	WHMIS Ingredient Disclosure List -
Quartz (Crystalline Silica)	1 %

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Zeolite	1318-02-1	Not Listed	Not Listed
Mineral Binder	NCAS	Not Listed	Not Listed
Quartz (Crystalline Silica)	14808-60-7	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Zeolite	1318-02-1	Not listed
Mineral Binder	NCAS	Not listed
Quartz (Crystalline Silica)	14808-60-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Zeolite	1318-02-1	Not listed
Mineral Binder	NCAS	Not listed
Quartz (Crystalline Silica)	14808-60-7	Not listed

**EU Classification****EU GHS - SV - CLP 1272/2008**

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Zeolite	1318-02-1	
Mineral Binder	NCAS	
Quartz (Crystalline Silica)	14808-60-7	

**EU - CLP (1272/2008)****R-phrase(s)**

not determined (not applicable)

**S -phrase(s)**

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Zeolite	1318-02-1		No information	
Mineral Binder	NCAS		No information	
Quartz (Crystalline Silica)	14808-60-7		No information	

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

**Indication of danger:**

None.

**16. OTHER INFORMATION**

**Preparation Date:** 11/14/2018  
**Revision Date:** 11/14/2018  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**