



# SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Molecular Sieve Beads 4A (Indicating)  
**PRODUCT SYNONYM(s):** Synthetic Zeolite  
**CAS NUMBER:** 1344-00-9  
**RECOMMENDED USE:** Adsorbent, desiccant  
**SUPPLIER/MANUFACTURER'S NAME:** Carbon Chemistry Ltd.  
**ADDRESS:** 34501 E Quincy Ave Bldg 1A, Watkins, Colorado 80137  
**BUSINESS PHONE:** +1 (888) 446-8421  
**EMERGENCY PHONE:** 24 HR. EMERGENCY TELEPHONE NUMBERS  
CHEMTREC: CCN832309 (800) 424-9300  
**DATE OF PREPARATION:** January 29, 2022  
**DATE OF LAST REVISION:** November 24, 2019

## SECTION 2 - HAZARDS IDENTIFICATION

### Classification of the mixture

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 and WHMIS 2015.

### Component(s) Contributing to Classification(s)

Cobalt Dichloride

### GHS Label elements, including precautionary statements

#### Pictogram(s):



#### Signal Word:

Danger

#### GHS Hazard Classification(s):

Acute Toxicity Category 5 (Oral)

Eye Irritation Category 2A

Skin Sensitization Category 1

Respiratory Sensitization Category 1

Carcinogenicity Category 2

Reproductive Toxicity Category 1

Specific Target Organ Toxicity – Single Exposure Category 3 (Respiratory Irritation)

Aquatic Acute Category 2

Aquatic Chronic Category 3

#### Hazard Statement(s):

H303 May be harmful if swallowed

H319 Causes serious eye irritation

H317 May cause allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

H335 May cause respiratory irritation

H401 Toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects

#### Prevention Statement(s):

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P261 Avoid breathing dust

P264 Wash hands thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P272 Contaminated clothing should not be allowed out of the workplace

P280 Wear protective gloves/protective clothing/eye protection/face protection

P284 In case of inadequate ventilation wear respiratory protection



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## Response Statement(s):

P302 + P352 IF ON SKIN: Wash with plenty of water and soap

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

P308 + P313 If exposed or concerned: Get medical advice

P312 Call a poison center immediately if you feel unwell

P321 Specific treatment (see section 4 on this label)

P333 + P313 If skin irritation or rash occurs: Get medical advice

P337 + P313 If eye irritation persists: Get medical advice/attention

P342 + P311 If experiencing respiratory symptoms: Call a doctor

P362 + P364 Take off contaminated clothing and wash before reuse

## Storage Statement(s):

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

P405 Store locked up

## Disposal Statement(s):

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

## **Other Hazards**

None applicable.

## **SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS:	CAS #	WT %	GHS CLASSIFICATION
Sodium Aluminosilicate	1344-00-9	>99.7%	NOT CLASSIFIED
Cobalt Dichloride	7646-79-9	<0.3%	ACUTE TOX 4, SKIN SENS 1, RESP SENS 1, MUTA 2, CARC 1, REPR 1, AQUA ACUTE 1, AQUA CHRONIC 1

**Additional Information:** See SECTION 16 for full classification phrases.

## **SECTION 4 - FIRST-AID MEASURES**

### **Description of first aid measures**

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

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

May cause mechanical eye irritation.

### **Medical conditions aggravated by exposure:**

This material or its emissions may aggravate pre-existing disorders involving any target organs mentioned in this Safety Data Sheet as being at risk.

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

Treat symptoms and reduce over-exposure.



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## SECTION 5 - FIRE-FIGHTING MEASURES

### Extinguishing media

Water, Dry powder / dry sand, alcohol-resistant foam, dry chemical or CO<sub>2</sub>.

### Specific hazards arising from the chemical

None known.

Explosion Sensitivity to Mechanical Impact:

Not Sensitive.

Explosion Sensitivity to Static Discharge:

Not Sensitive.

Minimum Ignition Energy (M.I.E.):

No Data at this time

### Special firefighting Procedure

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### Small Spill:

Sweep or vacuum material. Transfer to secondary container to be properly disposed.

### Large Spill:

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Dike area of spill to prevent spreading. Pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Notify proper authorities that a spill has occurred.

### Environmental precautions

Do not let product enter drains, do not allow to sewers/surface or ground water. See Section 12, Ecological information.

### Methods and material for containment and cleaning up

Pick up released product with appropriate implements & return to original container if reusable, or dispose. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

## SECTION 7 - HANDLING and STORAGE

### General Procedures:

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.

Keep away from food, drink and animal feeding stuffs.

### Handling:

Avoid dust formation. Provide sufficient air exchange and/or exhaust in work rooms. In case of insufficient ventilation, wear suitable respiratory equipment. For personal protection see section 8. Handle and open container with care.

If you require advice on safe handling techniques or specific uses, please contact your supplier or check the further information referred to in section 16.

### Storage:

Keep only in the original container. Keep containers tightly closed in a cool, well-ventilated place.

### Specific end uses

Adsorbent, desiccant.

## SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

### Control parameters

#### EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH	OSHA
Cobalt dichloride	7646-79-9	0.02	Not Listed

### Exposure Controls

Currently, International exposure limits are established for the components of this product. Please check with competent authority in each country for the most recent limits in place.



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**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Use protective gloves as appropriate to minimize skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

### SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>PHYSICAL STATE:</b>	Solid
<b>ODOR:</b>	Odorless
<b>ODOR THRESHOLD (PPM):</b>	Not Available
<b>APPEARANCE / COLOR:</b>	Blue-tan solid
<b>pH:</b>	5.5 – 9.0 (in 5% slurry)
<b>MELTING / FREEZING POINT (F°):</b>	Not Applicable
<b>BOILING POINT (F°):</b>	Not Applicable
<b>FLASH POINT (F°):</b>	Not Applicable
<b>EVAPORATION RATE (nBuAc = 1):</b>	Not Available
<b>FLAMMABILITY (solid, gas):</b>	Not Applicable
<b>FLAMMABLE LIMITS (in air by volume, %):</b>	Not Applicable
<b>VAPOR PRESSURE (mmHg):</b>	Not Applicable
<b>VAPOR DENSITY (AIR=1):</b>	Not Applicable
<b>RELATIVE DENSITY</b>	2.1
<b>SOLUBILITY IN WATER (%)</b>	Not Soluble
<b>PARTITION COEFFICIENT: N-OCTANOL/WATER:</b>	Not Applicable
<b>AUTOIGNITION TEMPERATURE:</b>	Not Applicable
<b>DECOMPOSITION TEMPERATURE:</b>	Not Applicable
<b>VISCOSITY:</b>	Not Applicable
<b>EXPLOSIVE PROPERTIES:</b>	Not Applicable
<b>OXIDISING PROPERTIES:</b>	Not Applicable

#### Other Information

<b>SPECIFIC GRAVITY 4°C: (Water = 1)</b>	Not Available
<b>DENSITY:</b>	Not Available
<b>VOC:</b>	Not Applicable
<b>WEIGHT PER GALLON:</b>	Not Applicable

### SECTION 10 - STABILITY and REACTIVITY

**Reactivity:** Hygroscopic. Reacts with water to evolve heat.

**Chemical Stability:** Product is stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Used product may release adsorbed hazardous materials upon the exposure to heat.

**Conditions to avoid:** Moisture, extreme heat, and incompatibilities.

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



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**Hazardous Decomposition Products:** No data available.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### TOXICITY DATA:

##### Acute and Chronic Toxicity

Inhalation : LC50 rat > 18.3 mg/L

Ingestion : LD50 rat > 10,000 mg/kg

Dermal : LD50 rabbit > 2000 mg/kg

#### POTENTIAL HEALTH HAZARDS OR RISKS FROM EXPOSURE:

**IRRITANCY OF PRODUCT:** Exposure with this product can be irritating to exposed skin and eyes.

**SENSITIZATION OF PRODUCT:** This product is not considered a skin sensitizer.

**CARCINOGENICITY:** Ingredients within this product are found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be, or suspected to be, cancer-causing agents by these agencies.

**GERM CELL MUTAGENICITY INFORMATION:** This product does contain components which are documented as Germ Cell Mutagenicity hazards.

**REPRODUCTIVE TOXICITY INFORMATION:** This product does contain components which are documented as reproductive hazards.

**SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** May cause respiratory irritation.

**SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** No specific data available for this product.

**ASPIRATION HAZARD** This product is not anticipated to be an aspiration hazard.

## SECTION 12 - ECOLOGICAL INFORMATION

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

### Toxicity

No specific data available on this product.

### Persistence and degradability

No specific data available on this product.

### Bioaccumulative potential

No specific data available on this product.

### Mobility in soil

No specific data available on this product.

### Results of PBT and vPvB assessment

No specific data available on this product.

### Other adverse effects

No specific data available on this product.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**PRODUCT DISPOSAL:** Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

**COMMENTS:** The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements.

## SECTION 14 - TRANSPORTATION INFORMATION

### US DOT/IMDG/IATA:

**PROPER SHIPPING NAME:** Not Regulated

**HAZARD CLASS NUMBER and DESCRIPTION:** N/A

**UN IDENTIFICATION NUMBER:** N/A

**PACKING GROUP:** N/A

**DOT LABEL(S) REQUIRED:** N/A

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2016):** N/A





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**MARINE POLLUTANT:** Ingredients are not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

## SECTION 15 - REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

### UNITED STATES REGULATIONS

**SARA REPORTING REQUIREMENTS:** This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

### SARA 311/312:

Acute Health: Yes      Chronic Health: Yes      Fire: No      Reactivity: No

### U.S. CERCLA REPORTABLE QUANTITY (RQ):

CERCLA Reportable Quantity RQ: None

### CLEAN WATER ACT:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

### STATE REGULATIONS: None.

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** This product does not contain chemicals on the Prop 65 list.

### CANADIAN REGULATIONS:

**CANADIAN DSL/NDL INVENTORY STATUS:** All of the components of this product are on the DSL Inventory

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

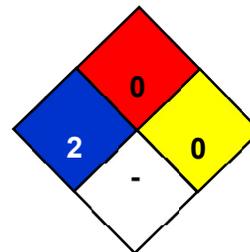
**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This product is categorized as per WHMIS 2015 Hazardous Product Regulations.

## SECTION 16 - OTHER INFORMATION

### HMIS RATING

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

### NFPA RATING



**Caution: HMIS and NFPA ratings are based on a 0-4 rating scale**  
0= Minimal Hazard, 1= Slight, 2= Moderate, 3= High, 4= Extreme

### GENERAL STATEMENTS:

Key or Legend to abbreviations and acronyms

- AIHA - American Industrial Hygiene Association
- ACGIH - American Conference of Governmental Industrial Hygienists
- CASRN - Chemical Abstract Services Registry Number
- CFR - Code of Federal Regulations
- D.O.T. - United States Department of Transportation
- IARC - International Agency for Research on Cancer
- OSHA - Occupational Safety and Health Administration
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- PPM - Parts per million
- mg/m3 - milligram per cubic meter
- kg - kilogram



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L or l	- Liter
n.o.s.	- not otherwise specified
Lbs.	- Pounds
mm <sup>2</sup> /s	- millimeters squared per second
PMCC	- Pensky-Martens Closed Cup
LC50	- Lethal Concentration 50 (concentration in water having a 50% chance of causing death to aquatic life)
EC50	- Effective Concentration that causes 50% inhibition in growth or mobilization
OECD	- Organization for Economic Cooperation and Development
SOCMI	- Synthetic Organic Chemical Manufacturing Industry
VOC	- Volatile Organic Compound

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MSDS to GHS Compliance ([www.msdstoghs.com](http://www.msdstoghs.com))

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**Revision History:**

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- Document creation.

**November 24, 2019**

- Address update

**January 29, 2022**

- Formula and Classification update

**END OF SDS**