SECTION 1. IDENTIFICATION

Product Identifier: Silver-exchanged Zeolite

Product Code: AG-ZEO-01-GR/B

CAS Number: 130328-18-6

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351
Emergency telephone number: +1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

EC Classification
(Directives 67 / 548 / EEC and 1999 / 45 / EC)
Not classified
Symbols
Not classified
Other information
The product includes a substance having Occupational Exposure Limits

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition
Inorganic chemicals
Substance name Content CAS No EC No Index No REACH Classification***
Silver-exchange Zeolite
Greater than 96%
130328-18-6

****
SECTION 4. FIRST AID MEASURES

Inhalation
Remove to fresh air and keep at rest in a position comfortable for breathing

Skin contact
IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor if you feel unwell

Eye contact
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

Ingestion
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media
Use extinguishing media appropriate for surrounding fire

Unsuitable extinguishing media
None known

Specific hazards
Inhalation of decomposition products may be harmful
Avoid (reject) fire fighting water to enter environment

Advice for fire fighters
Water plus silver zeolites can cause water to boil
Non flammable
Use water stream to cool containers
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear recommended personal protective equipment
Clean up methods
Use only non-sparking tools
Take up with sand, earth or other non-combustible absorbent material
Collect spills and put it into appropriate container
Avoid dust production
Environmental precautions
Prevent entry to sewers and public waters
Notify authorities if liquid enters sewers or public waters

SECTION 7. HANDLING AND STORAGE

Handling
Handle in accordance with good industrial hygiene and safety procedures
In order to rule out potential electrostatic discharge production, the system must be adequately grounded
Keep away from incompatible materials
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Industrial hygiene
Either local exhaust or general room ventilation is usually required

Personal protection
Handle in accordance with good industrial hygiene and safety procedures
Wear recommended personal protective equipment
Minimize generation of dust
Do not eat, drink or smoke when using this product

Skin protection
Use rubber gloves
Also consider your own risk assessment

Eye protection
Chemical goggles or safety glasses

Respiratory Protection
In case of insufficient ventilation, wear suitable respiratory equipment

WEL (UK)-LTEL (mg/m3)
10 inhalable dust (EH40 / 2011)
4 respirable dust (EH40 / 2011)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state
Granular solid (1-2 mm)

Colour
Yellow / beige

Odor
Odorless

pH value
No data available

Melting point (°C)
>500 °C

Boiling point (°C)
N/A

Vapor pressure (mm/Hg)
N/A

Specific gravity
0.85 – 1.00

Viscosity
N/A

Solubility in water
Insoluble

Flash point (°C)
N/A

Explosion limits
N/A
SECTION 10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions

Reactivity
Hazardous polymerization will not occur

Hazardous properties
None known

Materials to avoid
Moisture
Strong reducing agents

Conditions to avoid
Contact with water
High temperature
Moisture

Hazardous decomposition products
Metal oxides
Acrid smoke, irritating fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity information
Rat oral LD50 (mg/kg)
No data available

Dermal
No data available

Ocular
No data available
May be slight eye irritant

Carcinogenicity
Cancer suspected agent (Quartz)

Mutagenicity
Not expected to present a significant hazard under anticipated conditions of normal use

Toxic for reproduction: fertility
Not expected to present a significant hazard under anticipated conditions of normal use

Toxic for reproduction: unborn child
Not expected to present a significant hazard under anticipated conditions of normal use

Other toxicological information
None known

SECTION 12. ECOLOGICAL INFORMATION

LC50-48 Hour – fish (mg/l)
Not established

48 H-LC50 – Daphnia magna (mg/l)
Not established

IC50 72h Algae (mg/l)
Not established

Biodegradation (%)
Not established
Environmental precautions
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous
Notify authorities if product enters sewers or public waters

SECTION 13. DISPOSAL CONSIDERATIONS

General
Dispose of this material and its container at hazardous or special waste collection point

SECTION 14. TRANSPORT INFORMATION

Un No
Not regulated (ADR, IMDG, IATA)
Transport hazard class(es)
Not regulated (ADR, IMDG, IATA)
Proper shipping name
Not regulated (ADR, IMDG, IATA)
Packing group
Not regulated (ADR, IMDG, IATA)

SECTION 15. REGULATORY INFORMATION

Labelling EC 67 / 548 or EC 1999 / 45
Not classified as dangerous preparation / substance

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.