

Safety Data Sheet Molecular sieve 4 Å

Section 1: Chemical Product and Company Identification

Product Name: Molecular sieve 4 Å **Contact Information:**

Catalog Codes: 446

CAS#: 1318-02-1 Email: Info@etoocpharmed.com

RTECS: ZG6800000 Address: No.7, Bahar Shiraz St., Shariyaty

St., Tehran, Iran

Synonym: Sodium aluminum silicate

Chemical Name: Molecular sieve 0.4 nm (4°A)

Chemical Formula: Not available.

post code: 1565838773

Tehran Sales: (+98)77 510 414

Order Online: etoocpharmed.com

| Section 2: Composition and Information on Ingredients | | | | |
|---|-----------|-------------|--|--|
| Composition: | | | | |
| Name | CAS# | % by Weight | | |
| Molecular sieve 4 Å | 1318-02-1 | - | | |
| Toxicological Data on Ingredients: LD50 Oral - Rat - male and female - > 5.110 mg/kg. LD50 Dermal - | | | | |

Rabbit - female - > 2.000 mg/kg.

Section 3: Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 4: First Aid Measures

Description of first-aid measures

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 3) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Not combustible.

Ambient fire may liberate hazardous vapours.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

none

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

No special precautionary measures necessary.

Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

For precautions see section 3.

Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

Control parameters

Ingredients with workplace control parameters

Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Respiratory protection

and boiling range

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143,

DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

No special precautionary measures necessary.

| Section 9: Physical and Chemical Properties | | | |
|---|---|--|--|
| Information on basic phys a) Appearance | ical and chemical properties Form: solid (Beads) Color: tan | | |
| b) Odor | odorless | | |
| c) Odor Threshold | Not applicable | | |
| d) pH | No data available | | |
| e) Melting point/freezing point | Melting point/range: >1600 °C | | |
| f) Initial boiling point | No data available | | |

g) Flash point Not applicable

h) Evaporation rate No data available

i) Flammability (solid,gas)

The product is not flammable.

j) Upper/lower flammability or explosive limits No data available

k) Vapor pressure No data available

I) Vapor density No data available

m) Density

No data available

Relative density 2,2 at 20 °C - OECD Test Guideline 109

n) Water solubility Soluble (20 °C)

o) Partition coefficient:

n-octanol/water

Not applicable for inorganic substances

p) Autoignition No data available

temperature

q) Decomposition

temperature

No data available

r) Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

t) Oxidizing properties none

Other safety information

Bulk density ca.700 - 750 kg/m3

Section 10: Stability and Reactivity Data

Reactivity

No data available

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

no information available

Conditions to avoid

Avoid moisture. no information available

Incompatible materials

No data available

Hazardous decomposition products

In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - > 5.110 mg/kg (OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal - Rabbit - female - > 2.000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 168 h (OECD Test Guideline 405)

Respiratory or skin sensitization

Buehler Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Test Type: Chromosome aberration test

Species: Rat

Cell type: Bone marrow Application Route: Oral

Method: OECD Test Guideline 475

Result: negative

Test Type: dominant lethal test

Species: Rat

Cell type: Intrauterine Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain

components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Repeated dose toxicity - Rat - male - inhalation (dust/mist/fume) - 13 Weeks

Remarks: (ECHA)

Cough, Difficulty in breathing, Gastrointestinal disturbance, prolonged or repeated exposure can cause:, Damage to the lungs.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

Section 12: Ecological Information

Toxicity

Toxicity to fish static test NOEC - Pimephales promelas (fathead minnow) - > 680

mg/l - 96 h (US-EPA)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 130

mg/l - 72 h

(OECD Test Guideline 201)

Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects

Discharge into the environment must be avoided.

Section 13: Disposal Considerations

Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

| Section 14: Transport Information | | | |
|--|---------------------------|----------|--|
| UN number ADR/RID: - | IMDG: - | IATA: - | |
| UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods | | | |
| Transport hazard class(es) ADR/RID: - | IMDG: - | IATA: - | |
| Packaging group ADR/RID: - | IMDG: - | IATA: - | |
| Environmental hazards ADR/RID: no | IMDG Marine pollutant: no | IATA: no | |
| Special precautions for user Further information Not classified as dangerous in the meaning of transport regulations | | | |

Section 15: Other Regulatory Information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

References: Not available

Other Special Considerations: Not available

Created: 08/2022

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