

MATERIAL SAFETY DATA SHEET

According to Reg. 1907/2006/CE
And Regulation (UE) n° 830/2015

MOLECULAR SIEVE 13X

Application: Specialties

SECTION 1: PRODUCT IDENTIFICATION AND PRODUCE / SUPPLIER
1.1 Product identification and producer/supplier

Trade Name **MOLECULAR SIEVE 13X**

Product identifier : Molecular Sieve

1.2. RELEVANT IDENTIFIED USES OF SUBSTANCE OR PREPARATION AND RECOMMENDED USES

SU0 - SU1 - SU3 - SU5 - SU6b - SU8 - SU9 - SU10 - SU11 - SU12 - SU16 - SU17- SU18- SU19- SU20- SU21 - SU23

1.3. INFORMATION ON SUPPLIER OF SAFETY DATA SHEET

Company : **West Vacuum Srl**
Address: **Via Trento 39/G 20017 Rho (MI)**
Phone number: **+39 02 27203581**
Fax number:
E-mail: **info@westvacuum.com**

1.4. IN A EMERGENCY PLEASE CONTACT

CENTRO ANTIVELENI OSPEDALE NIGUARDA CA' GRANDA

AZIENDA OSPEDALIERA PAPA GIOVANNI XXII

CENTRO NAZ.INFORM.TOSSIC.FOND. S. MAUGERI

AZ. OSP UNIV. FOGGIA

CENTRO ANTIVELENI - U.O. TOSSICOLOGIA MEDICA AZIENZA OSPEDALIERA CAREGGI

CENTRO ANTIVELENI POLICLINICO A.GEMELLI- UNIVERSITA' CATTOLICA DEL SACRO CUORE

CENTRO ANTIVELENI - ISTITUTO DI ANESTESIOLOGIA E RIANIMAZIONE UNIVERSITA' DEGLI STUDI DI ROMA "LA SAPIENZA"

CAV.P. OSPEDALE PEDIATRICO BAMBINO GESU'

CENTRO ANTIVELENI AZIENDA OSPEDALIERA A. CARDARELLI

MILANO	02/66101029
BERGAMO	800-883300
PAVIA	0382/24444
FOGGIA	0881-732326
FIRENZE	055/4277238
ROMA	06/3054343
ROMA	06/49970698
ROMA	06/68593726
NAPOLI	081/7472870

SECTION 2: HAZARDS IDENTIFICATION
2.1. Classification

This product is not classified, Regulation (EC) No. 1272/2008

2.2. Label elements

No specific label elements required.

2.3. Other hazards

The product contains < 1% quartz, included in a natural raw material. Safety indication of quartz containing products is currently not necessary according to EU Regulations. Nevertheless quartz is classified as carcinogenic for human beings through breathing (group I) from the IARC (International Agency for Research on Cancer). Furthermore quartz may cause silicosis or other lung diseases due to prolonged exposition).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS
3.1 SUBSTANCE

Substances	N° EINECS	N° CAS	%	Hazard s (Regulation (EC) No. 1272/2008)	Reach Registration
Zeolite (crystalline aluminosilicate)	215-283-8	1318-02-1	50-100	n.a.	01-2119429034 -49-xxxx

3.2. MIXTURES

NA

SECTION 4: FIRST AID MEASURES
4.1. DESCRIPTION OF FIRST AID MEASURES

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

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Skin contact	Assure adequate flushing by eyelids with fingers. If irritation persists, call a physician.
Inhalation	in case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.
Ingestion	If inhaled, remove to fresh air. If necessary get medical attention.
	If swallowed, immediately wash out mouth with water provided person is conscious. Call a physician.
4.2 Most important symptoms and effects, None in particular	both acute and delayed
4.3 Indication of any immediate medical attention and special treatment needed	attention and special treatment needed
None in particular	
SECTION 5: FIREFIGHTING MEASURES	
5.1. Extinguishing media	
Standard media	
5.2. Special hazards arising	
No available information	
5.3 Advice for firefighters	
No particular precaution is required	
SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	
6.1.1. For non-emergency personnel	
Wear personal protections	
6.1.2. For emergency responders	
Remove persons to a safe place and isolate the area until the complete recovery of the spilled product. Wear necessary protective equipment as described in section 8.2. At the end of the recovery wash the affected area with water containing a detergent making sure that the washing water does not enter drains or natural waterways.	
6.2. Environmental precautions	
Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Ventilate area and wash spill site after material picking is complete.	
6.3 Methods and material for containment and cleaning up	
Do not let product enter drains.	
6.4 Reference to other sections	
See section 8.	
SECTION 7: HANDLING AND STORAGE	
7.1. Precautions for safe handling	
Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid formation of dust. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents. No smoking at working site.	
7.2. Conditions for safe storage, including any incompatibilities	
Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from heat. Avoid all possible sources of ignition (spark or flame). Incompatibilities: strong oxidizing agents	
7.3 Specific end uses(s)	
Adsorbent	
SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1. Control parameters	
Quartz 14808 -60-7	

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TWA (Italy) Long Term Value: 0,025 mg/m³
A2 (j)

DNEL/DMEL, 3 mg/m³ (hum)(long -local)
PNEC aqua – freshwater: 3,2 mg/l (Daphnia magna)

8.2 Exposure controls

8.2.1 Appropriate engineering controls

A good basic standard of occupational hygiene is advised.

8.2.2 Individual protection measures, such as personal protective equipment

Inhalation :

In the case of generation of fine dust use of dust filter
Filter P2

Hands :

Wear gloves for the protection against mechanical hazards according to EN 388.
Check protective gloves prior to each use for their proper condition.
Use gloves of stable material (e.g. Nitrile) if necessary tricoté to improve the wearability.
Preventive skin protection by use of skin protecting agents is recommended.
After each cleaning use treatment creams, for very dry skin greasy ointments.
Material of gloves
Wear gloves for the protection against mechanical hazards according to EN 388.
Butyl rubber, BR
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
Recommended thickness of the material: ³ 0.2 mm
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).
For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
Butyl rubber, BR
Nitrile rubber, NBR
Not suitable are gloves made of the following materials:
Strong material gloves
Leather gloves

Skin :

Protective work clothing

Eyes :

Safety Glasses

8.2.3 Environmental exposure controls : not required

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid – amber yellowish
Odour :	Odourless
Odour threshold :	not applicable
pH:	7-11
Melting point/freezing point :	>1273 K
Boiling point/ boiling range :	Not defined
Flash point :	Not applicable
Evaporation rate :	Not applicable
Flammability (solid, gas)	Not inflammable
Explosive limits :	No explosive properties
Vapour pressure:	Not defined
Vapour density:	Not applicable
Relative density :	2,1 g/cm ³
Solubility:	Not soluble
Partition coefficient: n -octanol/water :	Not defined
Auto -ignition temperature :	Not inflammable
Decomposition temperature :	> 600 °C
Viscosity :	Not applicable
Explosive properties :	Not applicable
Oxidizing properties :	Not applicable

9.2. OTHER INFORMATION

Not applicable

SECTION 10: STABILITY AND REACTIVITY
10.1 Reactivity

The product is stable under normal temperature and pressure.

10.2. Chemical stability

This product is stable under the specified conditions of storage, shipment and use. Decomposition with acids

10.3. Possibility of hazardous reactions

No hazardous reaction is known

10.4. Conditions to avoid

Information not available

10.5 Incompatible materials

Information not available

10.6 Hazardous decomposition products

No hazardous decomposition product is known

SECTION 11: TOXICOLOGICAL INFORMATION
11.1 INFORMATION ON TOXICOLOGICAL EFFECT

1318 -02-1 zeolite (crystalline aluminosilicate)

Acute toxicity :

Based on available data, the classification criteria are not met.

Oral LD50 >5110 mg/kg (rat) (OECD TG 401)

Dermal LD50 > 2000 mg/kg (rabbit) (OECD TG 402)

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Inhalative LC50/4 h > 3350 mg/m³ (rat) (IUCALID Dataset 18 Feb 2000)

Skin corrosion/irritation :

Owing to direct exposure with skin or mucosa may appear a stimulation effects in consequence of dehydration, that may cause red palms or

Irritation of skin IS 0 (rabbit) (OECD TG 404)

Serious eye damage/irritation :

Owing to direct exposure with skin or mucosa may appear a stimulation effects in consequence of dehydration, that may cause red palms or desiccation of skin or mucosal.

Irritation of eyes IS 0.7 -1.3 (rabbit) (OECD 405)

Corneal opacity

Skin sensitisation :

Buehler Test, guinea pig: No sensitization observed, OECD 406 (zeolite)

Oral CHO > 0.5 mg/kg bw (rat) (OECD TG 474)

no genotoxic effects

CHO 0.067 mg/l (Chinese Hamster Ovary) (OECD TG 473)

cytotoxic 0.0671 -0.725 mg/l without metabolic activation

0.313 -0.4 with metabolic activation

Mouse Lymphoma Test >0.08 mg/ml (L5178Y) (OECD TG 476)

no genotoxicity;

cytotoxicity > 0.02 mg/ml (without metabolic activation);

> 0.08 with metabolic activation

Germ cell mutagenicity :

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity :

Based on available data, the classification criteria are not met.

STOT-single exposure :

Based on available data, the classification criteria are not met.

alveo WEL / AGW 3 mg/m³ (long term value)

Inhalative WEL / AGW 10 mg/m³ (long term value)

STOT-repeated exposure :

Based on available data, the classification criteria are not met.

Aspiration hazard :

Based on available data, the classification criteria are not met.

Possible symptoms / effects

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION
12.1. Toxicity

No information is available.

LC50/ (96 h) > 680 mg / L (Pimephales promelas) (EPA 660/3 75/009)

EC50 / (24 h) 2808 mg/L (Daphnia magna) (OECD TG 202)

EC50 / (96 h) > 328 mg / L (scenedesmus subspicatus) (OECD TG 201)

EC50 / (16 h) 950 mg / L (pseudomonas putida) (DIN 38412/8)

12.2. Persistence and degradability

No information is available.

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12.3 Bioaccumulative potential

No information is available.

12.4. Mobility in soil

No information is available.

12.5. Result of PBT and vPvB assessment

No information is available.

12.6 Other adverse effects

No information is available.

SECTION 13: DISPOSAL CONSIDERATIONS
13.1. Waste treatment methods :

Contact a licensed professional waste disposal service to disposal of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14: TRASPORT INFORMATION
14.1 Un Number

n.a.

14.2 Un Proper Shipping Name

n.a.

14.3 Transport Hazard Class(Es)

n.a.

14.4 Packing Group

n.a.

14.5 Environmental Hazards

n.a.

14.6 Special Precautions For User

n.a.

14.7 Transport In Bulk According To Annex II Of Marpol And The Ibc Code

n.a.

SECTION 15: REGULATORY INFORMATION
15.1. Safety, health and environmental regulations/legislation

Waste must be disposed of in accordance with federal, state and local environmental control regulations

15.2 Chemical safety assessment

Not performed

SECTION 16: OTHER INFORMATION
Main references and data sources:
☒ Rules EC n° 1272/2008 (CLP) (and subsequent amendments and adjustments)

☒ Rules EC n° 1907/2006 (REACH) (and subsequent amendments and adjustments)

Acronimi:

ADR: European Agreement relative to the International Carriage of Dangerous Goods by Road

CAS: chemical abstracts service

CLP: classification, labeling and packaging

DL₅₀: lethal dose for 50% of the organisms

EINECS: European chemical Substances information System

IATA: International Air Transport Association

IMDG Code: International Maritime Dangerous Goods Code

PBT: persistent, bioaccumulative and toxic

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulation on the inland transport of dangerous goods by rail

TWA: Threshold limit value

vPvB: very persistent, very bioaccumulative

Note:

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