

SECTION 1: Material and Company identification

1.1. Identification of the product

Identification of the substance	Zeolite
Origin	Natural
Number CE	215-283-8
Number CAS	1318-02-1
Register number (REACH)	Not applicable. The substance has not the register obligation in Appendix V of REACH.

1.2. Identified uses of the substance and not recommended uses

Identified uses:	Water filtration Water treatment
Not recommended uses:	Different uses to indicated in ' <i>Identified uses</i> '

1.3. Information of the supplier of the safety data sheet

HINDROP S.L.
Carretera Hoya Fría s/n, Poligono Industrial
El Mayorazgo, Parcela 11, Nave 4
38110 Santa Cruz de Tenerife
España

Telephone	(+34) 902 08 09 10
Fax	(+34) 922 24 79 49
E-mail	info@hindrop.com
Website	www.hindrop.com

Contact responsible of safety datasheet	Engineering Department
E-mail	info@hindrop.com

1.4. Emergency telephone

Information services in case of emergency	(+34) 902 08 09 10 From Mon to Fri, from 08:00 to 16:00.
-------------------------------------------	-------------------------------------------------------------

SECTION 2: Hazards identification

2.1. Clasification of the substance

Clasification according to Regulation (EC) number 1272/2008 (CLP)

This substance does not meet the criterias to be classified according to Regulation (EC) number 1272/2008 (CLP)

2.2. Label elements

Labeled according to Regulation (EC) number 1272/2008 (CLP)

Not applicable

2.3. Other hazards

The substance does not meet the criterias to be considered PBT o mPmB (see section 12)

SECTION 3: Composition/Information about compounds

3.1. Substances

Substance name	Zeolite
Register number (REACH)	Not applicable. The substance is exempt from register obligation according to Appendix V of REACH.
Number CE	215-283-8
Number CAS Compounds	1318-02-1 100 % weight

SECTION 4: First Aid

4.1. First Aid description



General notes

Undress contaminated wears

In case of inhalation

Provide fresh air

In case of skin contact

Wash with fresh water/Shower

In case of eye contact

Wash carefully for a few minutes. In case of eye irritation, ask to ophthalmologist

In case of ingestion

Call a doctor if the person affected feels bad

Personel protection for the first aid assistant

Not determined

4.2. Main symptoms and effects, high and retarded

No symptoms and effects are known

4.3. Indications for medical assistance and special cares to give immediately

Any

SECTION 5: Fire-fighting procedures

5.1. Fire-fighting

Appropiated Fire-fighting procedures

Coordinate fire-fighting procedures with surroundings

Water spray, foam, dry extinguisher powder, carbon dioxide (CO₂)

Non-appropiated Fire-fighting procedures

Water jet

5.2. Specific hazards from the substance

Not combustible

Hazardous combustion products

Safety Data Sheet

According to Regulation (EU) N 2015/830 that modifies
Appendix II of Regulation (EC) N 1907/2006 (REACH)



In case of fire it can produce toxic fumes of carbon monoxide

5.3. Recommendations for firefighters

Fightfire should keep a safe distance, taking usual foresight.
Use an individual breathing system.

SECTION 6: Actions in case of accidental spill

6.1. Individual recommendations, protection systems and emergency procedure

For non-emergency services

Do not breathe dust

For emergency services

Use protective wears

6.2. Precautions of the environment

Keep the product far from drain systems and from surface and subterrain water

6.3. Procedures and materials for containing and cleaning

Suggestions for containing an spill

Close the drain system

Suggestions for cleaning an spill

Collect the material using mechanical equipments

Other suggestions for spills and leaks

Collect with boxes for later disposal

6.4. Information in other sections

Hazardous combustion products: see section 5.

Personel protection equipments see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13

SECTION 7: Handling and storage

7.1. Precautions for a safe handling

Avoid production of dust

Recommendations for higiene at work

Do not eat, drink or smoke during handling

Wash your hands before breaks and after work

7.2. Safe storage coinditions, including uncompatibilities

Keep tightly closed

Store at dry places

Uncompatibles substances

Check compatible chemical products storage

Warning to other indications

Not necessary

Airing requirements

Use local and general systems for airiness

Specific design for storage

Recommended storage temperature: 15 – 25 °C

7.3. Specific final uses

Except for specified indications, is not necessary to give any specific recommendation for using this product.

SECTION 8: Exposure controls / Individual protection

8.1. Parameters for control

National limitation values

Professional exposure limitations (exposure limits at workplace)

Country	Name of the factor	Nº CAS	Annotation	Identifier	VLA-ED [mg/m ³]	VLA-EC [mg/m ³]	Source
ES	Particles with no other identifications		I	VLA	10		INSHT
ES	Particles with no other identifications		R	VLA	3		INSHT

Annotation

i Inhalable fraction

r Breathable fraction

VLA-EC Limit value for short exposures (exposure level short): from the limit value defined, no exposure must happen for a period of 15 minutes, except the opposite is indicated

VLA-ED Limit value for diary exposures (exposure level long): estimated time according a referenced period of weighted average for eight hours

DNEL/DMEL/PNEC aplicables and other limitations

Values according to human health

For industrial workers:

Parameters	Tresholds	Protection target, exposure method	Exposure time	Tested Material	Source
DNEL	3 mg/mm ³	Human beings, Through inhalation	Cronic – Local effects	Synthetic Zeolite (List Number: 930-915-9)	ECHA
DNEL	2,5 mg/kg	Human beings, cutaneous	Cronic–systemic effects	Synthetic Zeolite (List Number: 930-915-9)	ECHA

Environmental values

Parameter	Tresholds	Environment	Exposure time	Tested Material	Slurce
PNEC	3,2 mg/l	Fresh water	Short time (1 occasion)	Synthetic Zeolite (List Number: 930-915-9)	ECHA
PNEC	0,32 mg/l	Sea water	Short time (1 occasion)	Synthetic Zeolite (List Number: 930-915-9)	ECHA
PNEC	95 mg/l	Sewage treatment plant (STP)	Short time (1 occasion)	Synthetic Zeolite (List Number: 930-915-9)	ECHA
PNEC	600 mg/kg	Ground	Short time (1 occasion)	Synthetic Zeolite (List Number: 930-915-9)	ECHA

8.2. Exposure controls

Individual protection equipments



Eyes/face protection

Use protection glasses with side protections

Cutaneous protection

Hands protection

Use suitable gloves for chemical protection proved for rule EN 374

Type of material

NBR (Nitrile rubber)

Thickness of material

>0,11 mm

Penetration time of glove's material

>480 minutes (permeate: level 6)

Other protection actions

Make recovery periods for the regeneration of the skin.

Preventive skin protectors are suggested (ointment)

Respiratory protection

Use respiratory protection in case of dust

Particles filter EN 143

P1 (filter 80%, at least, for atmospheric particles, color code: White)

Environmental exposure controls

Avoid contact to drain systems and surface and subterranean water

SECTION 9: Physical and chemical characteristics

9.1. Physical and chemical basic information

Aspect

Physical condition	Solid
Colour	Greenish gray-beige
Odour	No odor
Odour treshold	Not available information
Other physical and chemical parameters	
pH	3 < pH < 11
Porosity	24 - 32%
Apparent density	0,58 - 0,84 g/cm ³ (according to granulometry)
Boiling point/freezing point	>450 °C / <0 °C
Initial boiling point and boiling range	Not available information
Flashpoint	Non applicable
Evaporation rate	Not available information
Inflammability (solid, gas)	Non-flammable
Explosion limits	
Lower limit of explosivity (LIE)	Not available information
Upper limit of explosivity (LSE)	Not available information
Explosion limits for dust clouds	Not available information
Steam pressure	Not available information
Density	Not available information
Steam density	Not available information
Relative density	Not available information

Safety Data Sheet

According to Regulation (EU) N 2015/830 that modifies
Appendix II of Regulation (EC) N 1907/2006 (REACH)



Solubility	Not available information
Hidrosolubility	Practically insoluble
Share rate	Not available information
n-octanol/water (log KOW)	Not available information
Auto-flammable temperature	Not available information
Descomposition temperature	Not available information
Viscosity	Not important. Solid materia
Explosive characteristics	Any
Oxidizing characteristics	Any

9.2. Anyother information

No further information

SECTION 10: Stability and reactivity

10.1. Reactivity

This is a non-reactivity material under environmental conditions

10.2. Chemical stability

The material is stable under common environmental conditions and for normal conditions of temperature and pressure at storage and during handling

10.3. Possible hazardous reactions

Unknown hazardous reactions

10.4. Conditions to avoid

Unknown specific conditions to avoid

10.5. Incompatible Materials

No further information

10.6. Hazardous descomposition of products

Hazardous combustion products: see section 5

SECTION 11: Toxicologic information

11.1. Information about toxicologic effects

Grave toxicity

Exposure	Parameter	Value	Species	Tested material	Source
Oral	LD50	>5110 mg/kg	Rat	Synthetic Zeolite (List Number: 930-915-9)	ECHA
Cutaneous	LD50	>2000 mg/kg	Rubbit	Synthetic Zeolite (List Number: 930-915-9)	ECHA

Corrosion or cutaneous irritation

Not classified as corrosive/irritant to the skin

Grave eyes damages or eyes irritation

Not classified as eyes damager or eyes irritant

Breather or cutaneuous sensibility

Not classified as sensible for the breath or sensible for the skin

Germ cell mutagenicity

Not classified as mutagenous for germ cells

Carcinogenicity

Not classified as carcinogenicitous

Toxicity for reproduction

Not classified as toxic for reproduction

Resume of evaluation characteristics CMR

Not classified as mutagenous for germ cells, carcinogenous or toxic for reproduction

Specific toxicity for certain organs – unique exposure

Not classified as specific toxic for certain organs (unique exposure)

Specific toxicity for certain organs – repetitive exposure

Not classified as specific toxic for certain organs (repetitive exposure)

Dangers for breating

Not classified as dangerous in case of breathing

Symptoms according to physical, chemical and toxicologic carachteristics

In case of ingestion

Information not available

In case of eye contact

Low eye irritation

In case of inhalation

After inhalation of dust, respiratory tract may be irritated

In case of cutaneous contact

Low irritation on the skin in case of frecuent and continous contact

Other information

No further information

SECTION 12: Ecologic information

12.1. Toxicity

According to Rule (EC) 1272/2008: Not classified as dangerous for water environment

Toxicity of water (high)

Parameter	Value	Specie	Exposure time	Tested material	Source
ErC50	130 mg/l	Seaweed	72 hours	Synthetic Zeolite (List Number: 930-915-9)	ECHA
EC50	44 mg/l	Seaweed	72 hours	Synthetic Zeolite (List Number: 930-915-9)	ECHA

Toxicity of water (cronic)

Parameter	Value	Specie	Exposure time	Tested material	Source
EC50	680 mg/l	Fishes	21 days	Synthetic Zeolite (List Number: 930-915-9)	ECHA
NOEC	>86,7 mg/l	Fishes	30 days	Synthetic Zeolite (List Number: 930-915-9)	ECHA
LOEC	100 mg/l	Water invertebrate	21 days	Synthetic Zeolite (List Number: 930-915-9)	ECHA

Safety Data Sheet

According to Regulation (EU) N 2015/830 that modifies
Appendix II of Regulation (EC) N 1907/2006 (REACH)



				930-915-9)	
--	--	--	--	------------	--

12.2. Degradation process

Methods for determinate degradation are not applicable to inorganic materials

12.3. Bioaccumulation potential

Information not available

12.4. Movility on the ground

Information not available

12.5. Values PBT y mPmB

Information not available

12.6. Other inconvenient effects

Not dangerous for water

SECTION 13: Information for disposal

13.1. Methods for waste treatment

Contact to waste manager

Information for water treatment

Do not empty into drains

Information for waste prevention

Coordination of waste numbers/waste marks according to CER must be specifically done by process

Comments

Waste materials must be classified according to accepted categories by local or national waste treatment centers.

Pay attention to national or regional regulations

SECTION 14: Information for transport

Information according to dangerous products transported by road, rail, navigable or sea (ADR/RID/ADN/IMDG):

14.1. UNO number

Not subject to transport rules

14.2. UNO official clasification for transport

Not important

14.3. Danger clasification for transport

Not important

14.4. Packaging group

Not important

14.5. Environmental risks

Any (not dangerous for environment according to Rules for transportation of dangerous products)

14.6. Cautions for users

No further information

14.7. Bulk transport according to appendix II of MARPOL Agreement and IBC Code

Bulk transport in not considered

SECTION 15: Regulatory information

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

Regulations of European Union (EU)

Regulation 649/2012/EU about export and import of hazardous chemical products (PIC)

Not listed

Regulation 1005/2009/EC about substances that deplete the ozon layer (SAO)

Not listed

Regulation 850/2004/EC about persistent organic pollutants (POP)

Not listed

Restrictions according to REACH, Appendix VII

Not listed

List of substances subject to REACH authorisation, Appendix XIV

Not listed

Directive 2011/65/EU about restrictions for use of certain hazardous substances in electric and electronic products (RoHS), Appendix II

Not listed

Regulation 166/2006/EC for the establishment of european register for emissions and pollutants transfer (PRTR)

Not listed

Directive 2000/60/EC establishing a Community framework for action in the field of water policy

Not listed

National codes

The substance is listed in the following inventories:

EINECS/ELINCS/NLP (Europe)

REACH (Europe)

15.2. Chemical Safety Assessment

No chemical safety assessment made for this substance

SECTION 16: Other information

Changes in comparison to precedent version

The format complies the Regulation (EU) 2015/830 that amend Appendix II of Regulation (EC) 1907/2006 (REACH).

Company update.

Abbreviations and acronyms

Abbreviation	Description for abbreviation used
ADN	European Agreement for International Transport of dangerous goods through inland waterways
ADR	European Agreement for International Transport of dangerous goods by road
CAS	Identifier number without chemical meaning
CLP	Regulation EC no 1272/2008 for classification, labeling and packaging
CMR	Carcinogenic, mutagenic or toxic for reproduction
DMEL	Derived minimum effect level
DNEL	Derived non-effect level
EINECS	European Inventory of Existing Commercial chemical Substances
ELINCS	European List of Notified Chemical Substances
IMDG	International Maritime Dangerous Goods
INSHT	Límites de exposición profesional para agentes químicos, INSHT
MARPOL	International Agreement for Prevention of Marine Pollutants
mPmB	Very persistent and bioaccumulable
NLP	Expolímero
PBT	Persistent, Bioaccumulable and Toxic
PNEC	Preview non-effect concentration
REACH	Register, Evaluation, Authorisation and Restriction of substances and chemical products
RID	International Regulation for transport of dangerous goods by rail

Main bibliographic references and data sources

Regulation (EC) no 1907/2006 (REACH), modified by 2015/830/UE

Regulation (EC) no 1272/2008 (CLP, UE SGA)

<http://echa.europa.eu/>

Pertinent phrases (code and complete text as exposed at chapter 2 and 3)

Not applicable

Recommendations for training workers

Maintenance workers and production workers have received the information and training about instructions and equipment.

Exemption Clause

The information contained in this Safety Data Sheet constitutes the true knowledge of our knowledge at the date of manufacture. The information must be points of support for the safe handling of the product mentioned in this Safety Data Sheet for storage, processing, transport and disposal. The indications can not be passed to other products. While the product is mixed or made with other materials, the indications in this MSDS can not be transferred to the new agent.