

Safety Data Sheet

SILIPORITE POUDRES

Publication : 2022-01-04

Document type	Name	Last data update	Version	Page
Safety data sheets	<u>SILIPORITE POUDRES</u>	2021-02-22	1.1	<u>3</u>
Inventories	<u>Inventory</u>	2020-12-21	2.0	<u>11</u>

Product:**SILIPORITE POUDRES**

Page: 1 / 8

SDS No.: 971119-001 (Version 1.1)

Date 22.02.2021 (Cancel and replace : 21.12.2020)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Generic Safety Data Sheet

1.1. Identification of the product**Substance name:**

REACH Registration Name: Zeolites

REACH Registration Number: 01-2119429034-49-0015 & 01-2119429034-49-0008 The substance EC 930-915-9 may be identified under CAS 1318-02-1 as Zeolites outside Europe.

Grades : G5SP / G5XP / LM15 / NITROXY-AP40 / NK10AP / NK30AP / NK30APSC / SA1720 / SA1720SC / NK10AP USP / SILIPORITE G 5 - MC / SILIPORITE G 5 AP / SILIPORITE NITROXY AP 40 / SILIPORITE NK 10 APF / SILIPORITE NK 10 SP / SILIPORITE NK 20 AP / SILIPORITE NK 20 SP / SILIPORITE NK 30 APPL / SILIPORITE NK 30 SP / SILIPORITE NITROXY AP 100 / SILIPORITE NITROXY AP 30 /**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the Substance/Mixture :** Molecular sieve for adsorption.**1.3. Details of the supplier of the safety data sheet**

Supplier	ARKEMA Molecular sieves 420 rue d'Estienne d'Orves 92705 Colombes Cedex, FRANCE Telephone: +33 (0)1 49 00 80 80 Telefax: +33 (0)1 49 00 83 96 E-mail address: pars-drp-fds@arkema.com http://www.arkema.com
----------	--

1.4. Emergency telephone number**+ 33 1 49 00 77 77**
European emergency phone number: 112**2. HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008):**

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

2.2. Label elements**Label elements (REGULATION (EC) No 1272/2008):**

Additional information: No label necessary for this product.

2.3. Other hazards**Potential health effects:**Possible temporary irritation of eyes and respiratory system. (Physical effect of dust)
Dehydrating/desiccant effect.**Environmental Effects:**

In its normal state, this product does not present any specific risk for the environment.

Physical and chemical hazards:

No special risks of flammability or explosion.

Other:

Results of PBT and vPvB assessment : This information is not required.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Conforms to, the substance EC 930-915-9 may be identified under CAS 1318-02-1 outside of EU.

¹: See chapter 14 for Proper Shipping Name

4. FIRST AID MEASURES

4.1. Description of necessary first-aid measures:

General advice:

Remove soiled/dirty clothing, brush well and wash carefully.

Inhalation:

Move patient from contaminated area to fresh air. Blow nose. In case of persistent problems : Consult a physician. If dust inhalation is severe : move operator to fresh air, wash mouth and throat with plenty of water.

Skin contact:

Wash immediately, abundantly and thoroughly with soap and water.

Eye contact:

Wash immediately, abundantly and thoroughly with water. If irritation persists, consult an ophthalmologist. Do not scrub the eyes.

Ingestion:

Immediately give large quantities of water to drink. In case of problems : Consult a doctor.

Protection of first-aiders:

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed: No data available.

4.3. Indication of immediate medical attention and special treatment needed, if necessary: No data available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Incombustible product., Use suitable means to extinguish neighbouring fires.

5.2. Special hazards arising from the substance or mixture: None.

5.3. Advice for firefighters:

Specific methods:

Non combustible product that reacts violently with water, foam and olefins or other adsorbable substances.

Special protective actions for fire-fighters:

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

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid breathing dust. Do not crush, avoid the formation and spread of dust in the air.

6.2. Environmental precautions:

Avoid generating airborne dust. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up:

Methods for cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Elimination: See chapter 13

6.4. **Reference to other sections:** None.

7. HANDLING AND STORAGE

7.1. **Precautions for safe handling:**

Technical measures/Precautions:

Use suitable methods of discharge and handling to prevent dust generation. Protect from moisture/humidity.

Safe handling advice:

Smoking, eating and drinking should be prohibited in the application area. Avoid dust formation. Avoid dust accumulation in enclosed space. Appropriate breathing apparatus and safety goggles are recommended.

Hygiene measures:

Remove immediately soaked or soiled clothing. Wash separately. Wash immediately any affected parts of the body. See heading 4. Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. **Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a dry and well-ventilated place.

Packaging material:

Recommended: Large flexible bulk containers., Watertight drums with polyethyleneliner.

7.3. **Specific end use(s):** None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters:**

Exposure Limit Values (dust)

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EH40 WEL	12 2011	TWA	–	10	Inhalable dust.
EH40 WEL	12 2011	TWA	–	4	Respirable dust.
EH40 WEL	12 2011		–	–	Inhalable dust. Listed
EH40 WEL	12 2011		–	–	Respirable dust. Listed
ACGIH (US)	03 2014	TWA	–	3	Respirable particles.
ACGIH (US)	03 2014	TWA	–	10	Inhalable particles.

Exposure Limit Values

Zeolites

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EH40 WEL	12 2011	TWA	–	10	Inhalable dust.
EH40 WEL	12 2011	TWA	–	4	Respirable dust.
EH40 WEL	12 2011		–	–	Inhalable dust. Listed
EH40 WEL	12 2011		–	–	Respirable dust. Listed
ACGIH (US)	02 2012	TWA	–	1	Respirable fraction.

Derived No Effect Level (DNEL): ZEOLITES :

End Use	Inhalation	Ingestion	Skin contact
Workers	3 mg/m3 (LT, LE)		2,5 mg/kg bw/day (LT, SE)
Consumers	0,003 mg/m3 (LT, LE)		1,25 mg/kg bw/day (LT, SE)

LE : Local effects, SE : Systemic effects, LT : Long term, ST : Short term

Derived No Effect Level (DNEL): ZEOLITES :

End Use	Inhalation	Ingestion	Skin contact
Workers	3 mg/m3 (LT, LE)		2,5 mg/kg bw/day (LT, SE)
Consumers	0,003 mg/m3 (LT, LE)		1,25 mg/kg bw/day (LT, SE)

LE : Local effects, SE : Systemic effects, LT : Long term, ST : Short term

Predicted No Effect Concentration: ZEOLITES :

Compartment:	Value:
Fresh water	3,2 mg/l
Marine water	0,32 mg/l
Effects on waste water treatment plants	95 mg/l
Soil	600 mg/kg dw

8.2. Exposure controls:

Personal protective equipment:

Respiratory protection: Appropriate normalized breathing apparatus is recommended., Wear a dust mask (If necessary).
Recommended Filter type: Particulates type
Hand protection: Impervious gloves
Eye/face protection: Safety glasses, Eye wash bottle with pure water
Skin and body protection: Protective suit

Environmental exposure controls: See chapter 6

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:

Physical state (20°C): solid
Form: powder
Colour: white
Odour: None.
Olfactory threshold: Not relevant
pH: pH 7, aqueous sludge
Melting point/range : > 400 °C (OECD Test Guideline 102)
Boiling point/boiling range : Not applicable
Flash point: Not applicable
Evaporation rate: Not relevant
Flammability (solid, gas):
Flammability: Not applicable
Vapour pressure: No data available.
Vapour density: Not relevant
Relative density (Water=1): 2,2
Bulk density: 300 - 800 kg/m³ depending on grade.
Water solubility: No data available.
Partition coefficient: n-octanol/water: No data available.
Auto-ignition temperature: Not applicable
Decomposition temperature: > 400 °C
Viscosity, kinematic: Not applicable
Explosive properties:
Explosivity: Not explosive
Oxidizing properties: The substance or mixture is not classified as oxidizing.

9.2. Other data: None.

10. STABILITY AND REACTIVITY

10.1. Reactivity: No data available.

10.2. Chemical stability:

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions: No data available.

10.4. Conditions to avoid:

Store protected from moisture (to maintain the technical properties of the product)

10.5. Incompatible materials to avoid:

Water (exothermic reaction.)

10.6. Hazardous decomposition products: None.

11. TOXICOLOGICAL INFORMATION

All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

11.1. Information on toxicological effects:

Acute toxicity:

Inhalation: According to its structure, this product should not be harmful in normal conditions of use

ZEOLITES :
• In animals : No mortality/4 h/Rat: 2,08 mg/l (Method: OECD Test Guideline 403)

Ingestion: According to its structure, can be considered as : Slightly harmful by ingestion

ZEOLITES :
• In animals : No mortality/Rat: 2 g/kg (Method: OECD Test Guideline 401)

Dermal: According to its structure, can be considered as : Slightly harmful in contact with skin.

ZEOLITES :
• In animals : No mortality/Rabbit: 2 g/kg (Method: OECD Test Guideline 402)

Local effects (Corrosion / Irritation / Serious eye damage):

Skin contact: According to its structure, can be considered as : Slightly irritating to skin

ZEOLITES :
• In animals : No skin irritation (OECD Test Guideline 404, Rabbit, Exposure time: 4 h)

Eye contact: According to its structure, can be considered as : Slightly irritating to eyes

ZEOLITES :
• In animals : Mild eye irritation (OECD Test Guideline 405, Rabbit)

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: According to its structure, can be considered as : Not a skin sensitizer

ZEOLITES :
• In animals : No skin allergy was observed. (Method: OECD Test Guideline 406 Guinea pig maximization test)

CMR effects :

Mutagenicity: According to its structure : Not genotoxic

In vitro

ZEOLITES :
Ames test: Inactive (Method: OECD Test Guideline 471)
In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)
In vitro test for chromosomal abnormalities on CHO cells: Active (Method: OECD Test Guideline 473)

In vivo

ZEOLITES :
Chromosome aberration test in vivo: Inactive (Method: OECD Test Guideline 475)
Rodent dominant lethal test: Inactive (Method: OECD Test Guideline 478)
Micronucleus test in vivo rat: Inactive (Method: OECD Test Guideline 474)

Carcinogenicity: Absence of carcinogenic effects

ZEOLITES :
• In animals : No adverse effects reported. (Rat, 2 years, By diet)

Reproductive toxicity:

Foetal development: Based on the available data, the substance is not suspected of having developmental toxicity potential.

ZEOLITES :
• In animals : Exposure during pregnancy: Absence of congenital malformations and embryotoxic effects at non-toxic doses for the mothers
NOAEL (Developmental Toxicity): > 1.600 mg/kg bw/day
NOAEL (Maternal Toxicity): > 1.600 mg/kg bw/day
(Method: OECD Test Guideline 414, rabbit, rat, By oral route)

Specific target organ toxicity :

Single exposure :

Inhalation:

According to its structure : , Non irritating to respiratory system

Repeated exposure:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

ZEOLITES :

No specific toxic effects
By diet: 5000 ppm (rat, 3 months)
By diet: 60 mg/kg bw/day (rat, Several years)
Inhalation: Repeated exposure by inhalation
LOAEL= 0.001 mg/l (Monkey, Several years)

Aspiration hazard:

Not relevant

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment: All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

12.1. Acute toxicity :

Fish:

Slightly harmful to fish

ZEOLITES :

LC50, 96 h (Poecilia reticulata (guppy)) : = 1.800 - 3.200 mg/l

Aquatic invertebrates:

Slightly harmful to daphnia

ZEOLITES :

EC50, 24 h (Daphnia magna (Water flea)) : = 2.808 mg/l (Method: OECD Test Guideline 202, Immobilization)

Aquatic plants:

Slightly harmful to algae

ZEOLITES :

ErC50, 72 h (Desmodesmus subspicatus (green algae)) : > 100 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

Microorganisms:

ZEOLITES :

EC10, 16 h (Pseudomonas putida) : = 330 mg/l (Method: Standard : DIN 38412 - Part 8, Growth rate)

Sediment toxicity:

ZEOLITES :

NOEC, 30 d : > 100 mg/l (Method: Reported data)

Aquatic toxicity / Long term toxicity:

Fish:

ZEOLITES :

NOEC, 30 d (Pimephales promelas (fathead minnow)) : > 86,7 mg/l (Method: US EPA)

Aquatic invertebrates:

ZEOLITES :

NOEC, 21 d (Daphnia magna (Water flea)) : = 32 mg/l (Method: OECD Test Guideline 211, Reproduction inhibition)

Aquatic plants:

ZEOLITES :

NOEC r, 72 h (Desmodesmus subspicatus (green algae)) : = 18 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

Non aquatic toxicity / Acute toxicity :

Terrestrial plants:

ZEOLITES :

EC50, 23 d : > 1.500 mg/kg (Method: OECD Test Guideline 208, Inhibition of germination)

12.2. Persistence and degradability :

Biodegradation (In water):

ZEOLITES :
Not applicable
inorganic

12.3. Bioaccumulative potential :

Bioaccumulation: Not bioaccumulable

ZEOLITES :
Bioconcentration factor (BCF): = 0,36 - 1,44 (28 d, Method: Reported data, clams

12.4. Mobility in soil - Distribution among environmental compartments: No data available.

12.5. Results of PBT and vPvB assessment :

This information is not required.

12.6. Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment:

Disposal of product: In accordance with local and national regulations. If product has been used (contains adsorbed substances) : dispose of at an approved waste disposal site only. If product not used (in original state) : dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

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

15.2. Chemical safety assessment: None.

INVENTORIES:

For the inventory details, see Appendix.

16. OTHER INFORMATION

Bibliography the substance EC 930-915-9 may be identified under CAS 1318-02-1 outside of EU.

Update:

Safety datasheet sections which have been updated:		Type:
1	Product name	Revisions
15	15. REGULATORY INFORMATION	Revisions

Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL)
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)
bw : Body weight
food : oral feed
dw : Dry weight
vPvB : very Persistent and very Bioaccumulative
PBT : Persistent, Bioaccumulative and Toxic

This safety data sheet complies with international standard ISO 11014-1. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).

INVENTORIES DOCUMENT

Product:

SILIPORITE POWDRES

Page: 1 / 2

SDS No.: 971119-001 (Version 2.0)

Date 21.12.2020 (Cancel and replace : 01.03.2017)

Name	Inventory	EINECS / REACH	TSCA	DSL / NDSL	IECSC	ENCS	ISHL	KECI	PICCS	AICS	NZIOC
G5SP		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
G5XP		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
LM15		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
NITROXY-AP40		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
NK10AP		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
NK30AP		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
NK30APSC		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SA1720		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SA1720SC		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
NK10AP USP		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE G 5 - MC		Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to

(A) The product contains ELINCS substances.	(I) This product contains at least one component covered by an exemption available only for Arkema - Please consult Arkema for more information
(B) This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH).	(J) This product contains at least one component covered by a polymer exemption available only for Arkema - Please consult Arkema for more information.
(C) This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).	(K) Consult ARKEMA.
(D) This product contains at least one component registered according to Regulation (EC) N° 1907/2006 (REACH)	(L) This product contains a NLP (No Longer Polymer)
(E) This product contains at least one component exempt according to Regulation (EC) N° 1907/2006 (REACH)	(M) The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory, Consult Arkema.
(F) All components of this product are on the Canadian DSL	(N) Consult ALTUGLAS
(G) This product contains one or several components listed in the Canadian NDSL list. All other components are on the DSL list.	(O) Based on alternate CAS number(s).
(H) This product contains one or several components that are not on the Canadian DSL nor NDSL lists.	(P) The TSCA Inventory status of the product has not been evaluated.
<i>In case of empty inventory, Consult ARKEMA.</i>	
ARKEMA	420 rue d'Estienne d'Orves - 92700 Colombes – FRANCE

SILIPORITE G 5 AP	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NITROXY AP 40	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NK 10 APF	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NK 10 SP	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NK 20 AP	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NK 20 SP	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NK 30 APPL	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NK 30 SP	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NITROXY AP 100	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to
SILIPORITE NITROXY AP 30	Conforms to	Conforms to	Conforms to (F)	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to	Conforms to

(A) The product contains ELINCS substances.	(I) This product contains at least one component covered by an exemption available only for Arkema - Please consult Arkema for more information
(B) This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH).	(J) This product contains at least one component covered by a polymer exemption available only for Arkema - Please consult Arkema for more information.
(C) This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).	(K) Consult ARKEMA.
(D) This product contains at least one component registered according to Regulation (EC) N° 1907/2006 (REACH)	(L) This product contains a NLP (No Longer Polymer)
(E) This product contains at least one component exempt according to Regulation (EC) N° 1907/2006 (REACH)	(M) The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory, Consult Arkema.
(F) All components of this product are on the Canadian DSL	(N) Consult ALTUGLAS
(G) This product contains one or several components listed in the Canadian NDSL list. All other components are on the DSL list.	(O) Based on alternate CAS number(s).
(H) This product contains one or several components that are not on the Canadian DSL nor NDSL lists.	(P) The TSCA Inventory status of the product has not been evaluated.
<i>In case of empty inventory, Consult ARKEMA.</i>	
ARKEMA	420 rue d'Estienne d'Orves - 92700 Colombes – FRANCE