

**KEDOPLAN SUPER 4**



**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : KEDOPLAN SUPER 4

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

self-leveling mortar for floors

**1.3. Details of the supplier of the safety data sheet**

Registered company name : SEMIN S.A.S.

Address : 1 A rue de la Gare.57920.KEDANGE SUR CANNER.

Telephone : +33 (0)3.82.83.53.57 Fax : +33 (0)3.82.83.93.33

mail@semin.com

www.semin.com

Nos FDS sont consultables sur [www.quickfds.com](http://www.quickfds.com)

**1.4. Emergency telephone number : +33 (0)1 45 42 59 59.**

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

**>SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**> In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

May produce an allergic reaction (EUH208).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**2.2. Label elements**

**> In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS05

Signal Word :

DANGER

Product identifiers :

EC 266-043-4

PORTLAND CEMENT CLINKER

EC 270-659-9

FLUE DUST FROM PORTLAND CEMENT CLINKER PRODUCTION

Additional labeling :

EUH208

Contains PORTLAND CEMENT CLINKER. May produce an allergic reaction.

EUH208

Contains FLUE DUST FROM PORTLAND CEMENT CLINKER PRODUCTION. May produce an allergic reaction.

Hazard statements :

H315

Causes skin irritation.

H318

Causes serious eye damage.

Precautionary statements - General :

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

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## Precautionary statements - Prevention :

P261

Avoid breathing dust.

P280

Wear protective gloves (nitrile rubber, neoprene), protective clothing, eye protection and face protection.

## Precautionary statements - Response :

P302 + P352

IF ON SKIN: Wash with plenty of soap and water. Call immediately a POISON CENTER or a doctor.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call immediately a doctor.

## Precautionary statements - Disposal :

P501

Dispose of contents/container to an appropriate waste disposal plant.

**2.3. Other hazards**

In the event of dust formed by mechanical action (sanding, sawing, etc.), this dust may cause irritation by inhalation and contact with eyes.

In use, may form flammable/explosive dust-air mixture.

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**>SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****> Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 14808-60-7 EC: 238-878-4  CRYSTALLINE SILICA (ALVEOLAR QUARTZ <1%)		[1]	25 $\leq$ x % < 50
CAS: 471-34-1 EC: 207-439-9  CARBONATE DE CALCIUM		[1]	10 $\leq$ x % < 25
CAS: 65997-15-1 EC: 266-043-4  PORTLAND CEMENT CLINKER	GHS07, GHS05 Dgr Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT SE 3, H335	[1]	2.5 $\leq$ x % < 10
CAS: 7778-18-9 EC: 231-900-3 REACH: 1-2119444918-26  SULFATE DE CALCIUM		[1]	2.5 $\leq$ x % < 10
CAS: 68475-76-3 EC: 270-659-9 REACH: 01-2119486767-17  FLUE DUST FROM PORTLAND CEMENT CLINKER PRODUCTION	GHS07, GHS05 Dgr Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT SE 3, H335		0 $\leq$ x % < 1

**Information on ingredients :**

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

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**>SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures**

**> In the event of exposure by inhalation :**

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.  
In the event of an allergic reaction, seek medical attention.  
Consult a physician if irritation, discomfort, coughing or other symptoms occur afterwards.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.  
Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.  
If there is any redness, pain or visual impairment, consult an ophthalmologist.

**> In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.  
Watch out for any remaining product between skin and clothing, watches, shoes, etc.  
In the event of an allergic reaction, seek medical attention.  
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.  
If the product is dry: remove as much as possible by wiping, then rinse thoroughly with water.  
If the product is wet: immediately remove clothing soaked with fresh product (spoiled product) and rinse thoroughly with water.

**In the event of swallowing :**

Do not give the patient anything orally.  
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.  
Seek medical attention immediately, showing the label.

**4.2. Most important symptoms and effects, both acute and delayed**

Skin contact: Dry cement in contact with wet skin or exposure to wet or caked cement may result in thickening of the skin and the appearance of cracks or crevices. Prolonged contact combined with abrasions can cause severe burns.  
Eye contact: Direct contact may cause damage to the cornea by rubbing, immediate or delayed irritation or inflammation. Larger amounts of dry cement or splashes of mixed cement can have consequences ranging from moderate irritation (conjunctivitis or blepharitis) to chemical burns and blindness.  
If ingested in large quantities: Burns of the mouth, esophagus, digestive tract, nausea, vomiting.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Unsuitable methods of extinction**

Pressurised water jet.

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.  
Do not breathe in smoke.

**5.3. Advice for firefighters**

Avoid rejection of extinguishing waters into environment.

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**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Neutralise with an acidic decontaminant.

Retrieve the product by mechanical means (sweeping/vacuuming) : do not generate dust.

Recover the product by using dry cleaning methods that do not cause the dispersion of the dry product in the air, for example vacuum cleaners (industrial portable, equipped with a filter of high efficiency particulate air (HEPA) or another equivalent technique). Place recovered material in a closed container and dispose as indicate in Item 13.

or mops, brooms or wet sprinkler Pipes (set to fine mist to avoid projecting the product in the air). Recover the resulting slurry.

If it is not possible to suck the dry or the wet, ensure that the staff of dry sweeping wears a suitable personal protective equipment and that it prevents a greater dispersion of dust.

Place recovered material in a closed container. Cause he took before disposal as indicated in item 13.

**6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

It is advisable to wear a respiratory protection mask.

Avoid contact with skin and eyes.

Avoid dust formation.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling dust.

Avoid eye contact with this mixture at all times.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

**Storage**

Keep out of reach of children.

Store in original container, without contact with the ground, in a dry, temperate and poorly ventilated.

**Packaging**

Always keep in packaging made of an identical material to the original.

**KEDOPLAN SUPER 4****7.3. Specific end use(s)**

No data available.

**>SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****> Occupational exposure limits :**

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.05 mg/m <sup>3</sup>	-	-	-	R
471-34-1	10 mg/m <sup>3</sup>	-	-	-	-
65997-15-1	1 (E.R) mg/m <sup>3</sup>			A4	
7778-18-9	10 (I) mg/m <sup>3</sup>				

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m <sup>3</sup> :	VLE-ppm :	VLE-mg/m <sup>3</sup> :	Notes :	TMP No :
14808-60-7	-	0.1 A	-	-	-	25
471-34-1	-	10	-	-	-	-
7778-18-9	-	10	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.3 mg/m <sup>3</sup>	-	-	-	R
471-34-1	10 mg/m <sup>3</sup>	-	-	-	TI
65997-15-1	4 mg/m <sup>3</sup>				

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
65997-15-1	-	5 mg/m <sup>3</sup> E	-	DFG
7778-18-9		6A mg/m <sup>3</sup>		

**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Prescription glasses are not considered as protection.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Neoprene® (Polychloroprene)

Recommended properties :

- Impervious gloves in accordance with standard EN ISO 374-2

**KEDOPLAN SUPER 4****- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

These clothes shall be chosen to ensure there is no inflammation or irritation of the skin at the neck and wrist by contact with the powder

Suitable type of protective clothing :

Wear protective clothing against solid chemicals and particles suspended in the air (type 5) in accordance with standard EN13982-1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Boots.

Wear clothes appropriate to the type of work and areas that protect products likely to be in contact with the fresh product.

To be translated (XML)

**- Respiratory protection**

Avoid inhaling dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149.

Category :

- FFP2

**>SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****General information :**

Physical state : Powder or dust.

**Important health, safety and environmental information**

pH : Not stated.  
Strongly basic.

Boiling point/boiling range : Not relevant.

Flash point interval : Not relevant.

Vapour pressure (50°C) : Not relevant.

Density : > 1

Water solubility : Dilutable.

Melting point/melting range : Not relevant.

Self-ignition temperature : Not relevant.

Decomposition point/decomposition range : Not relevant.

**> 9.2. Other information**

VOC (g/l) : 1.10

**SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

To our knowledge, this product presents no particular hazard. Mixed with water, the product will harden and form a stable mass, which is not reactive in the natural surroundings.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

The wet cement is alkaline and is incompatible with acids, ammonium salts, aluminum or other non-noble metals. Cement is dissolved in hydrofluoric acid by producing corrosive gaseous silicon tetrafluoride. The cement reacts with water to form silicates and calcium hydroxide. Silicates in the cement react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and difluor.

**10.3. Possibility of hazardous reactions**

No data available.

**KEDOPLAN SUPER 4****10.4. Conditions to avoid**

Avoid :

- formation of dusts
- humidity

Dusts can form an explosive mixture with air.

Moisture can cause the mortar to set.

**10.5. Incompatible materials**

Keep away from :

- strong oxidising agents
- hydrofluoric acid

Aluminum (hydrogen formation when used in an uncontrolled cement spoiled).

Acids.

Ammonium salts.

**10.6. Hazardous decomposition products**

To be translated (XML)

**>SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

In the event of dust formed by mechanical action (sanding, sawing, etc..), this dust may cause irritation by inhalation and contact with eyes.

**11.1.1. Substances****> Acute toxicity :**

PORTLAND CEMENT CLINKER (CAS: 65997-15-1)

Dermal route : LD50 > 2000 mg/kg  
Species : Rabbit

CARBONATE DE CALCIUM (CAS: 471-34-1)

Oral route : LD50 = 6450 mg/kg  
Species : Rat  
OECD Guideline 420 (Acute Oral ToxicityFixed Dose Method)

Dermal route : LD50 > 2000 mg/kg  
Species : Rat  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 > 3 mg/l  
OECD Guideline 403 (Acute Inhalation Toxicity)

**> Skin corrosion/skin irritation :**

Causes skin irritation.

CARBONATE DE CALCIUM (CAS: 471-34-1)

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**KEDOPLAN SUPER 4****Serious damage to eyes/eye irritation :**

Causes serious eye damage.

**> Respiratory or skin sensitisation :**

SULFATE DE CALCIUM (CAS: 7778-18-9)

Local lymph node stimulation test :

Non-Sensitiser.

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Buehler Test :

Non-sensitiser.

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

CARBONATE DE CALCIUM (CAS: 471-34-1)

Local lymph node stimulation test :

Non-Sensitiser.

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Buehler Test :

Non-sensitiser.

Species : Mouse

OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**> Germ cell mutagenicity :**

SULFATE DE CALCIUM (CAS: 7778-18-9)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.

Species : Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) :

Negative.

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

CARBONATE DE CALCIUM (CAS: 471-34-1)

No mutagenic effect.

OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

**> Carcinogenicity :**

CARBONATE DE CALCIUM (CAS: 471-34-1)

Carcinogenicity Test :

Negative.

No carcinogenic effect.

**> Reproductive toxicant :**

SULFATE DE CALCIUM (CAS: 7778-18-9)

No toxic effect for reproduction

Study on development :

Species : Rat

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OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

CARBONATE DE CALCIUM (CAS: 471-34-1)

No toxic effect for reproduction

Study on fertility :

Species : Rat

OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

**Specific target organ systemic toxicity - repeated exposure :**

Repeated exposure to respirable dust in excess of the average occupational exposure may cause coughing, sneezing and difficulty breathing and the development of chronic obstructive pulmonary disease (COPD).

Inhalation of cement dust may aggravate preexisting respiratory disease and / or pathologies like emphysema or asthma and / or other related pre-existing damage to the eyes or skin.

**11.1.2. Mixture****|> Respiratory or skin sensitisation :**

Contains at least one sensitising substance. May cause an allergic reaction.

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 14808-60-7 : IARC Group 1 : The agent is carcinogenic to humans.

**SECTION 12 : ECOLOGICAL INFORMATION****12.1. Toxicity****12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability****12.2.1. Substances**

SULFATE DE CALCIUM (CAS: 7778-18-9)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

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**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number**

-

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**>SECTION 15 : REGULATORY INFORMATION**

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

**> - Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

**Abbreviations :**

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

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ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS05 : Corrosion

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

▷ Modification compared to the previous version