



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

DOLINA NIDY ALFA FIRE

Creation date	01st June 2020	Version	1.2
Revision date	04th August 2022		

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier** DOLINA NIDY ALFA FIRE
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Plastering mortar, Designed to provide fire protection for structural elements.
Main intended use
PC-CON-OTH Other construction products
Mixture uses advised against
not available
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name ATLAS sp. z o.o.
Address ul. Jana Kilińskiego 2, Łódź, 91-421
Poland
VAT Reg No PL9471936467
Phone +48 42 631 89 45
E-mail msds@atlas.com.pl
Web address www.atlas.com.pl
Competent person responsible for the safety data sheet
Name ATLAS sp. z o.o.
E-mail msds@atlas.com.pl
- 1.4. Emergency telephone number**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Eye Dam. 1, H318

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment
Causes serious eye damage.

- 2.2. Label elements**
Hazard pictogram



Signal word
Danger

Hazardous substances
calcium hydroxide

Hazard statements
H318 Causes serious eye damage.

Precautionary statements
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 10034-74-1 EC: 600-067-1 Registration number: 01-2119444918-26	siarczan wapnia	75-90		
CAS: 1305-62-0 EC: 215-137-3	calcium hydroxide	1-3	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	1

Notes

1 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Observe. Seek medical advice if complaints such as malaise, cough or persistent irritation occur.

If on skin

Rinse skin with water or shower. Remove soiled clothing. Wash before reuse. Use protective creams in case of repeated or prolonged skin contact.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with clean water.



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- 4.2. Most important symptoms and effects, both acute and delayed**
If inhaled
Inhalation of dust can lead to damage to the respiratory system.
If on skin
Not expected.
If in eyes
Causes serious eye damage.
If swallowed
Disorder of digestive system, stomach pain, vomiting, diarrhoea.
- 4.3. Indication of any immediate medical attention and special treatment needed**
Symptomatic treatment.

SECTION 5: Firefighting measures

- 5.1. Extinguishing media**
Suitable extinguishing media
Accommodate extinguishing components to the location of fire.
Unsuitable extinguishing media
Water - full jet. The product hardens on contact with water and solidifies.
- 5.2. Special hazards arising from the substance or mixture**
In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.
- 5.3. Advice for firefighters**
Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.
- 6.2. Environmental precautions**
Prevent contamination of the soil and entering surface or ground water.
- 6.3. Methods and material for containment and cleaning up**
Absorb spillage to prevent material damage. Seal damaged packaging and place in protective packaging. Place the product mechanically in an appropriate manner. Sweep up. If large amounts of product are spilled, water can be moistened to avoid spreading dust. The uncontaminated dry mixture can be reused. Treat the hardened product as construction debris. Dispose of the collected material according to the instructions in the section 13.
- 6.4. Reference to other sections**
See the Section 7, 8 and 13.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
Prevent dust formation in concentrations exceeding the maximum permissible concentrations for the working atmosphere. Use personal protective equipment in accordance with section 8. Observe applicable safety and health regulations. Ensure good ventilation (mechanical or natural) at the workplace. It is advisable to take precautions against skin, respiratory and eye contact in case of continuous or prolonged exposure. Use the recommended personal protective equipment given in section 8. Wash hands after use. In case of injury, stop working with the product and treat the wound.
- 7.2. Conditions for safe storage, including any incompatibilities**
Store in closed, original and labeled packages in in dry, cool and well-ventilated rooms, preferably on pallets, do not expose directly to sunlight. Store away from incompatible materials, drinks and food. Protect against moisture - the product is irreversible hardening under the influence of moisture. The bags should be stacked in a manner for stability. Under the above conditions, none are known adverse interactions.
- 7.3. Specific end use(s)**
not available



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
calcium hydroxide (CAS: 1305-62-0)	WEL 8h	5 mg/m ³
calcium hydroxide Respirable fraction (CAS: 1305-62-0)	WEL 8h	1 mg/m ³
	WEL 15min	4 mg/m ³

Other information of limit values

DNELs for components of the mixture: Route of exposure Expozycja DNEL (employees) Calcium sulphate [7778-18-9] Inhalation High dose 5082 mg / m³ Long term exposure 21.17 mg / m³ DNEL (users) Inhalation High dose 3811 mg / m³ Long term exposure 5.29 mg / m³ Oral High dose 11.4 mg / kg bw / day Long term exposure 1, 52 mg / kg bw / day Calcium hydroxide [1305-62-0] Inhalation Long-term exposure 1 mg / m³ Short-term exposure 4 mg / m³ PNEC values for components of the mixture Calcium sulphate [7778-18-9]: Aquatic environment: not toxic to invertebrates, algae and microorganisms at the concentrations used. Acute toxicity may occur at concentrations greater than the maximum solubility of calcium sulphate in water. Precipitates: not present. Calcium ions and sulphate ions occur naturally in the environment. Soil: not present. PNEC STP (sewage treatment plant) 100 mg/l Calcium hydroxide [1305-62-0] Aquatic environment: 490 µg/l Soil: 1080 mg/l

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

When handling in long-term or repeatedly, use protective gloves. Contaminated skin should be washed thoroughly. For handling and application of the product it is sufficient to use protective gloves according to EN 388 Protective gloves against mechanical risks and EN 420 General requirements for gloves (cat.II). Soaked gloves should be changed. Have gloves ready to change. Use protective hand creams.

Respiratory protection

Half mask with dust filter when substance exposure limits are exceeded or in environments with inadequate ventilation.

Thermal hazard

Not applicable

Environmental exposure controls

Observe the usual measures for the protection of the working environment, see section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	yellow
Odour	without fragrance
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-flammable
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined
pH	12 (undiluted)
Kinematic viscosity	not determined
Solubility in water	miscible
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	not determined



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Density and/or relative density

Density

500 g/cm³ at 20 °C

Relative vapour density

not determined

Particle characteristics

not determined

Form

solid: particulate/powder

9.2. Other information

Molar weight

data not available

L(+)-Tartaric acid (CAS: 87-69-4)

150,09 g/mol

Summary formula

data not available

L(+)-Tartaric acid (CAS: 87-69-4)

C₄H₆O₆

Solubility in water: for the components of the mixture: CaSO₄·0.5H₂O, 20°C - about 8.9 g/l (freely soluble) Ca(OH)₂, 200°C - 1844.9 mg/l (moderately soluble) CaSO₄·2H₂O, 20°C - about 2.03 g/l (slightly soluble) - after hydration

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use.

10.5. Incompatible materials

May be corrosive to metals.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

May cause serious damage if in contact with eyes.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available



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SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

More information

Acute aquatic toxicity calcium sulphate LC50 (96h) seawater 79 mg/l (Japanese roseate - oryzias latipes) OECD 203 LC50 (72h) freshwater 79 mg/l (algae) OECD 201 EC50 790 mg/kg (Organisms in activated sludge) OECD 209 EC50 (48h) 79 mg/l (flea daphnia - daphnia) OECD 202 LC50 (96h) seawater 457 mg/kg (fish) 158 mg/l (invertebrates - invertebrate) LC50 (96h) freshwater 50, 6 mg/l (fish) EC50 (48h) freshwater 49.1 mg/l (invertebrates - invertebrate) EC50 (72h) freshwater 184.57 mg/l (algae) NOEC (72h) freshwater 48 mg/l (algae) NOEC (14h) 32 mg/l (marine invertebrates - invertebrate) NOEC (21h) 1,080 mg/kg (terrestrial plants, general) EC10/LC10 (NOEC) 12 000 mg/kg dry weight (microorganisms, soil) 2 000 mg/kg dry weight (microorganisms, soil)

12.2. Persistence and degradability

not available

12.3. Bioaccumulative potential

The bioaccumulation factor has not been determined for the mixture. According to experience, components of the mixture such as e.g. calcium sulphate are neutral towards living organisms.

12.4. Mobility in soil

The product is soluble and mobile in water and soil. Neutral to soil. If it enters the soil it is mobile and can contaminate ground water.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

none

SECTION 13: Disposal considerations

13.1. Waste treatment methods

the holder of waste is obliged by law to first subject it to recovery, and if this is impossible for technological reasons or is not justified for ecological or economic reasons, the waste must be disposed of in a manner consistent with environmental protection requirements and waste management plans. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.



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14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Public health act 1961. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

Other important information about human health protection

The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals



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RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Eye Dam.	Serious eye damage
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method. Product experience.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.