

acc. to Regulation (EC) No. 1907/2006 (REACH)

NOFIRNO (Sealant)

Version number: 9.0
Replaces version 8.0 of: 2022-11-21

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

1.1 Product identifier

Trade name NOFIRNO (Sealant)

Registration number (REACH) not relevant (mixture)

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

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

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SECTION 2: Hazardsidentification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

-Not a hazardous substance or mixture

Supplemental hazard information:

-not applicable

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

-Not a hazardous substance or mixture

2.3 Otherhazards

No data available.

SECTION 3 : Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

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3.2 Mixtures

Polymer based sealant with additives

Wt %	Name of substance	Identifier	Classification acc. To GHS
<2,4	2-Pentanone, oxime	EC No. 484-470-6	Acute toxicity (oral), Hazard Category 4, Harmful if swallowed /H302 Serious eye damage/eye irritation, Hazard Category 2, Causes serious eye irritation / H319 Hazardous to the aquatic environment — Chronic Hazard, Category 3, Harmful to aquatic life with long lasting effects /H412
<2,4	2-Pentadione, O, O',"" - (methylsilylidyne)trioxime	CAS-No. 37859-55-5 EC No. 484-460-1	Acute Tox. 4 H302; Eye Irrit. 2 H319;
~0,9	(3-Aminopropyl)triethoxysilane	EC No. 213-048-4	Acute toxicity (oral), Hazard Category 4, Harmful if swallowed /H302 Sensitisation — Skin, hazard category 1, 1A, 1B, May cause an allergic skin reaction /H317 Skin corrosion/irritation, Hazard Category 1B, Causes severe skin burns and eye damage /H314

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

- Get medical attention if symptoms occur.

Following inhalation

-Move into fresh air and keep at rest.

Following skin contact

-Wash with plenty of soap and water.

Following eye contact

-Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

-Rinse mouth with water. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Not applicable, non-combustible

5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing. Coordinate firefighting measures to the fire surroundings. Fight fire with normal precautions from a reasonable distance.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective clothing.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to clean up a spill

-Pick up mechanically.

Other information relating to spills and releases

- -Place in appropriate containers for disposal. Ventilate affected area.
- -Contaminated surfaces will be slippery.

6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

- -Use only in well-ventilated areas.
- -Wear protective clothing

Measures to protect the environment

-Avoid the release of the mixture to the environment, such as avoiding spill and keep away from drains.

Measures to prevent fire

-Not applicable.

Advice on general occupational hygiene

-Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Keep away from food, drink and animal feed.

7.2 Conditions for safe storage, including any incompatibilities

Keep in closed containers at a dry and cool place

Incompatible with substances that react with water

Conditions of storage: protect against frost, do not expose to heat and direct sunlight, store at a temperature

between 5 and 35 °C

No special storage safety measures required

7.3 Specific end use(s)

See section 16 for a general overview.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

See for details chapter 6.

Individual protection measures (personal protective equipment) Eye protection Wear safety glasses.

Skin protection

- hand protection Wear suitable gloves.

- other protection measures Minimize skin contact Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls No data available





SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Paste
Colour	Red, White, Black or Blue
Odour	typical

Other safety parameters

pH (value)	No data available
Melting point/freezing point	Not applicable / 0 °C
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Explosive limits	No explosion hazard.
Density	1,4 to 1,5 g/cm ³
Solubility(ies)	Not soluble

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Auto-ignition temperature	Not applicable
Viscosity	No data available
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Solvent content	None
VOC content	< 31 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

Stable under normal usage conditions

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not freeze the product.

10.5 Incompatible materials

Materials that react with water.

10.6 Hazardous decomposition products

No known thermal decomposition.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Category	(3-Aminopropyl)triethoxysilane	
Acute toxicity	LD50 Oral – Rat – male – 1.780 mg/kg	
	LC50 Inhalation – Rat – male – 6 h - > 5 ppm	
	(OECD Test Guideline 403)	
	LC50 Inhalation – Rat – female – 6 h - > 16 ppm	
	(OECD Test Guideline 403)	
	LD50 Dermal – Rabbit – 3,8 g/kg	
Skin corrosion/irritation	Skin – Rabbit	
	Result: Causes burns. – 1 h	
	(OECD Test Guideline 404)	

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Serious eye damage/eye irritation	Eyes – Rabbit	
	(OECD Test Guideline 405)	
	Remarks: Severe eye irritation	
Respiratory or skin sensitisation	Buehler Test – Guinea pig	
	May cause sensitisation by skin contact.	
	(OECD Test Guideline 406)	
Germ cell mutagenicity	Hamster	
	ovary	
	Result: negative	
	Mutagenicity (micronucleus test)	
	Mouse – male and female	
	Result: negative	
Carcinogenicity	IARC: No component of this product present at levels greater than or	
caremogementy	equal to 0.1% is identified as	
	probable, possible or confirmed human carcinogen by IARC.	
Reproductive toxicity	No data available	
Specific target organ toxicity –	No data available No data available	
single exposure	NO data available	
Specific target organ toxicity –	No data available	
repeated exposure	NO data available	
Aspiration hazard	No data available	
Additional Information	Repeated dose toxicity – Rat – male and female – Oral – No observed	
Additional information	adverse effect level – 200 mg/kg –	
	Lowest observed adverse effect level – 600 mg/kg	
	Repeated dose toxicity – Rabbit – male and female – Dermal – No	
	observed adverse effect level – 84 mg/kg	
	observed daverse effect level of mg/kg	
	Material is extremely destructive to tissue of the mucous	
	membranes and upper respiratory tract, eyes, and	
	skin., spasm, inflammation and edema of the bronchi, pneumonitis,	
	pulmonary edema, burning sensation,	
	Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea,	
	Vomiting To the best of our knowledge, the chemical, physical, and	
	toxicological properties have not been thoroughly investigated.	
	Liver – Irregularities – Based on Human Evidence	

11.2 Information on other hazards:

Endocrine disrupting properties:

No data available

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SECTION 12: Ecological information

12.1 Toxicity

Test data are not available for the complete mixture.

Category	2-Pentanone, Oxime (623-40-5)
Toxicity to fish	EC 50 – Oncorhynchus mykiss - >= 100 mg/l – 96 h
	OECD Test Guideline 203
Toxicity to daphnia and other aquatic	Immobilization EC 50 - Daphnia magna (Water flea) - > 113 mg/l –
invertebrates	48h (OECD Test Guideline 202)
Toxicity to aquatic plants	static test ERC50 - SPseudokirchneriella subspicatus - > 88 mg/l - 72h
	(OECD Guidline 201)
Category	(3-Aminopropyl)triethoxysilane (919-30-2)
Toxicity to fish	LC50 - Danio rerio - > 934 mg/l - 96 h
	(OECD Test Guideline 203)
Toxicity to daphnia and other aquatic	Immobilization EC50 - Daphnia magna (Water flea) - 331 mg/l - 48 h
invertebrates	(OECD Test Guideline 202)
Toxicity to aquatic plants	static test EC50 - Scenedesmus subspicatus (green algae) - > 1.000
	mg/I - 72h

12.2 Persistence and degradability

Not available for the mixture.

Not available for the mixture.		
Category	2-Pentanone, Oxime (623-40-5)	
Biodegradability	The 10-day window requirement is not fulfilled. 9 % (activated	
	sludge, domestic, adapted; 28 d; Carbon dioxide generation);	
	Method: OECD 301 B; The product is not readily biodegradable. The	
	substance fulfills the criteria for ultimate aerobic biodegradability	
	and ready biodegradability.	
Category (3-Aminopropyl)triethoxysilane (919-30-2)		
Biodegradability aerobic - Exposure time 28 d		
	Result: 67 % - Not biodegradable	

12.3 Bio accumulative potential

No data available for the mixture

(3-Aminopropyl)triethoxysilane	
Cyprinus carpio (Carp) – 5 mg/l	
Bioconcentration factor (BCF): 3,4	

12.4 Mobility in soil

No data available for the mixture and the components

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12.5 Results of PBT and vPvB assessment

No data available for the mixture

(3-Aminopropyl)triethoxysilane

This substance is not considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Data are not available for the mixture and the components

12.7 Other adverse effects

Data are not available for the mixture and the components

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance it-self.

Remarks

IIN number

1/1

14.7

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

none

SECTION 14: Transport information

17.1	OH HUHIDEI	Hone
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	
	Class	-
14.4	Packing group	-
14.5	Environmental hazards	-

Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

Special precautions for user

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Refer to sections 6,8,12

Not-limited list of reproductive toxic substances - fertility

none

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Regulation (EC) No. 1907/2006 Annex XVII: Limitation conditions: 3, 70

Additional regulations, restrictions and prohibitions

Substances of very high concern (SVHC) according to REACH, article 57

none

National Legislation

Ensure all national/local regulations are observed

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this mixture by the supplier

SECTION 16: Other information

16.1 Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord européen 9elative au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment – chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008

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MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin

Abbr.	Descriptions of used abbreviations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

16.2 Key literature references and sources for data

Reference No.	Reference description
-	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
-	Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.
-	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime
-	Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

16.3 Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

16.4 List of relevant phrases (code and full text as stated in chapter 2 and 3)

Hazard statements:

Tid Lat a State Mental	
H302	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

16.5 Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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