

**Safety Data Sheet****FASSASIL NTR PLUS**

Safety Data Sheet dated 01/03/2024 version 2

This Safety Data Sheet is prepared voluntarily: it is not required according to Article 31 of Regulation (EC) No 1907/2006.

As amended by UK REACH Regulation SI 2019/758.

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Mixture identification:

Trade name: FASSASIL NTR PLUS

Trade code: 1001

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

Recommended use: Silicone-based universal sealant, alkoxide cross-linking

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

Company: FASSA Srl

Via Lazzaris, 3 - 31027 Spresiano (TV) - Italy

Tel. +39 0422 7222

Fax +39 0422 887509

Imported in the UK:

FASSA UK LTD

Ashchurch Business Centre,

Alexandra Way, Ashchurch, Tewkesbury GL20 8TD- UK

Tel. +44 (0) 1684.212272

Responsible: laboratorio.spresiano@fassabortolo.it

**1.4. Emergency telephone number**

NHS 111

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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) n. 1272/2008 (CLP)**

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

**2.2. Label elements**

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

**Special Provisions:**

EUH208 Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

**Special provisions according to Annex XVII of REACH and subsequent amendments:**

Restricted to professional users.

The product has been classified according to Regulation (EC) No 1272/2008 (CLP) as amended by UK CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

**2.3. Other hazards**

No PBT, vPvB or endocrine disruptor substances  
present in concentration  $\geq 0.1\%$ .

When cross-linking occurs, ETHANOL (CAS 64-17-5) is produced by hydrolysis.

This product contains a biocide with fungicidal properties for film. Active substances: 2-butyl-1,2-benzisothiazolin-3-one (BBIT – CAS 4299-07-4). In accordance with art. 58 of Regulation no. 528/2012, this product is defined as a "treated article" (not a biocidal product).

No other hazards

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**SECTION 3: Composition/information on ingredients****3.1. Substances**

N.A.

**3.2. Mixtures**

**Hazardous components within the meaning of the CLP regulation and related classification:**

Qty	Name	Ident. Numb.	Classification	Registration Number:
≥3 - <5 %	Distillates (petroleum), hydrotreated middle	CAS:64742-46-7 EC:265-148-2 Index:649-221-00-X	Asp. Tox. 1, H304, DECLN(*)	01-2119552497-29-xxxx
≥1 - <3 %	3-Aminopropyl(methyl)silsesquioxanes, ethoxy-terminated	CAS:128446-60-6 EC:603-274-5	Flam. Liq. 3, H226; Eye Irrit. 2, H319; Skin Irrit. 2, H315	
≥0.1 - <0.3 %	3-aminopropyltriethoxysilane	CAS:919-30-2 EC:213-048-4 Index:612-108-00-0	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317  Acute Toxicity Estimate: ATE - Oral: 500mg/kg bw	01-2119480479-24-xxxx

(\*)DECLN Substance classified in accordance with Note N, Annex VI of EC Regulation (EC) 1272/2008.

The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Classifications according to Regulation (EC) No 1272/2008 (CLP) as amended by UK CLP Regulation, UK SI 2019/720 and UK SI 2020/1567.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

**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**

If you feel unwell, seek medical advice.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media:

CO<sub>2</sub>, powder extinguisher, foam, water spray.

Extinguishing media which must not be used for safety reasons:

Water jet.

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

Burning produces heavy smoke.

Do not inhale explosion and/or combustion gases (carbon monoxide, carbon dioxide, nitrogen oxides).

In the event of fire, hazardous fumes and gases may form. Exposure to the combustion products may be a health hazard!

Hazardous products in the event of fire: carbon oxides, silicon oxides, nitrogen oxides, partially unburned hydrocarbons, toxic and very toxic fumes.

**5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****For non emergency personnel:**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**For emergency responders:**

Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Material suitable for collection: inert absorbent material (e.g. sand, vermiculite)

After the product has been recovered, rinse the area and materials involved with water.

Retain contaminated washing water and dispose it.

**6.4. Reference to other sections**

See also section 8 and 13

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

**Advice on general occupational hygiene:**

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Keep away from food, drink and feed.

Incompatible materials:

See chapter 10.5

Instructions as regards storage premises:

Adequately ventilated premises.

The product may release ethanol. In closed spaces, the vapours may form mixtures with the air, which in the presence of ignition sources can cause explosions, even inside empty, uncleaned containers.

**7.3. Specific end use(s)**

Recommendation(s)

See chapter 1.2

Industrial sector specific solutions:

None in particular

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Predicted No Effect Concentration (PNEC) values**

3-aminopropyltriethoxysilane

CAS: 919-30-2      Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1.3 mg/l

**Derived No Effect Level (DNEL) values**

3-aminopropyltriethoxysilane

CAS: 919-30-2      Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 14 mg/m<sup>3</sup>; Consumer: 3.5 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 2 mg/kg; Consumer: 1 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 1 mg/kg

**8.2. Exposure controls**

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Eye protection:

Eye glasses with side protection (EN 166).

Protection for skin:

Use suitable clothing that provides complete protection to the skin according to activity and exposure (EN 14605/EN 13982), e.g. overall, apron, safety shoes, suitable clothing.

Protection for hands:

There is no material or combination of materials for gloves that can guarantee unlimited resistance to any individual chemical or combination of chemicals.

For prolonged or repeated handling, use chemical resistant gloves.

Suitable materials for safety gloves (EN 374/EN 16523); Butyl caoutchouc (butyl rubber): thickness  $\geq$  0.4 mm; permeation time  $\geq$  480 min. NBR (Nitril rubber): thickness  $\geq$  0.4 mm; permeation time  $\geq$  480 min

The choice of suitable gloves does not only depend on the material, but also on other quality characteristics that vary from one manufacturer to another and on the manner and times according to which the mixture is used.

Hand protection - butyl rubber protective gloves. Gloves suitable for applications up to 60 min.

Respiratory protection:

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

Combination filtering device (EN 14387).

Environmental exposure controls:

See point 6.2

Hygienic and Technical measures

See section 7.

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## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Appearance: N.A.

Color: N.A.

Odour: N.A.

Melting point/freezing point: N.D.

Boiling point or initial boiling point and boiling range: N.D.

Flammability: N.A.

Lower and upper explosion limit: N.D.

Flash point: N.A.

Auto-ignition temperature: N.D.

Decomposition temperature: N.D.

pH: N.A.

Kinematic viscosity: N.A.

Density and/or relative density: N.A.

Relative vapour density: N.D.

Vapour pressure: N.D.

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

#### **Particle characteristics:**

Particle size: N.A.

### **9.2. Other information**

Conductivity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Evaporation rate: N.A.

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Stable under normal conditions

### **10.2. Chemical stability**

Stable under normal conditions

### **10.3. Possibility of hazardous reactions**

Because of heat or fire the preparation can release carbon oxides and vapours which may be harmful to health.

The product reacts slowly with water (through moisture in the environment), becoming a rubbery solid and producing METHANOL.

### **10.4. Conditions to avoid**

Keep away from heat sources.

Conditions to avoid: moisture.

### **10.5. Incompatible materials**

None in particular.

See chapter 10.3

### **10.6. Hazardous decomposition products**

No hazardous decomposition products when stored and handled correctly.

See chapter 5.2

Reacts with: water, basic and acidic substances. The reaction takes place with formation of ethanol.

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## **SECTION 11: Toxicological information**

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

Information on hazard classes as defined in the retained Regulation (EC) No 1272/2008 (CLP) as amended by UK CLP Regulation, UK SI

**Toxicological Information of the Preparation**

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

**Toxicological information on main components of the mixture:**

3-aminopropyltriethoxysilane

CAS: 919-30-2	a) acute toxicity	ATE - Oral: 500 mg/kg bw
		LD50 Oral Rat 1780 mg/kg
		LD50 Skin Rabbit 4000 mg/kg
		LC50 Inhalation of aerosol Rat > 7.35 mg/l

**11.2 Information on other hazards****Endocrine disrupting properties:**No endocrine disruptor substances present in concentration  $\geq 0.1\%$ **SECTION 12: Ecological information**

Adopt good working practices, so that the product is not released into the environment.

**12.1. Toxicity**

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

Not classified for environmental hazards.

No data available for the product

**List of Eco-Toxicological properties of the components**

3-aminopropyltriethoxysilane

CAS: 919-30-2	a) Aquatic acute toxicity: LC50 Fish > 934 mg/l 96h
	a) Aquatic acute toxicity: EC50 Daphnia 331 mg/l 48h
	a) Aquatic acute toxicity: EC50 Algae 603 mg/l 72h

**12.2. Persistence and degradability**

Hydrolysis products: ethanol and silanol and/or siloxanol compounds. Silicone content. Non-biodegradable. The paraffinic hydrocarbons present are considered to be degradable in water and air. They are mostly distributed in the air. The small part that breaks down in the water and does not biodegrade tends to accumulate in the fish.

Assessment based on ecotoxicological studies with products with similar physicochemical properties: no relevant effects on aquatic organisms are expected for this product. In the current state of experience, no negative effects are to be expected in sewage treatment plants.

ErC50 (growth rate/72h) >100 mg/l (Pseudokirchneriella subcapitata - Conclusion by read-across).

3-aminopropyltriethoxysilane

CAS: 919-30-2 Non-readily biodegradable

**12.3. Bioaccumulative potential**

N.A.

#### **12.4. Mobility in soil**

N.A.

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

No PBT or vPvB substances present in concentration  $\geq 0.1\%$

#### **12.6 Endocrine disrupting properties**

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### **12.7 Other adverse effects**

Unlikely biological accumulation.

N.A.

Insoluble in water. Good separation from water by filtration in the vulcanised state.

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### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Do not allow it to enter drains or watercourses.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Once the product has expired, it must be disposed of in accordance with current legislation.

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### **SECTION 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

#### **14.1. UN number or ID number**

N.A.

#### **14.2. UN proper shipping name**

N.A.

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

N.A.

#### **14.4. Packing group**

N.A.

#### **14.5. Environmental hazards**

N.A.

#### **14.6. Special precautions for user**

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

#### **14.7. Maritime transport in bulk according to IMO instruments**

N.A.

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### **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Directive 2010/75/EU

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)

**Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:**

Restrictions related to the product: None.

Restrictions related to the substances contained: 28, 40, 75

**Provisions related to directive EU 2012/18 (Seveso III):**

None

**Regulation (EU) No 649/2012 (PIC regulation)**

No substances listed

**German Water Hazard Class.**

Class 3: extremely hazardous.

**SVHC Substances:**

On the basis of available data, the product does not contain any SVHC in percentage  $\geq 0.1\%$ .

This product contains a biocide with fungicidal properties for film. Active substances: 2-butyl-1,2-benzisothiazolin-3-one (BBIT – CAS 4299-07-4). In accordance with art. 58 of Regulation no. 528/2012, this product is defined as a "treated article" (not a biocidal product).

Relevant EU provisions transposed through retained EU legislation:

UK REACH List of restrictions (Annex XVII);

UK REACH Candidate list of substances of very high concern (SVHC) for authorisation;

UK REACH List of substances subject to authorisation (Annex XIV);

Export and import of hazardous chemicals - Prior informed consent (PIC regulation).

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

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**SECTION 16: Other information**

Code	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

Safety data sheets of raw materials suppliers.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and

constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
BEI: Biological Exposure Index  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CAV: Poison Center  
CE: European Community  
CLP: Classification, Labeling, Packaging.  
CMR: Carcinogenic, Mutagenic and Reprotoxic  
COV: Volatile Organic Compound  
CSA: Chemical Safety Assessment  
CSR: Chemical Safety Report  
DNEL: Derived No Effect Level.  
EC50: Half Maximal Effective Concentration  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IC50: half maximal inhibitory concentration  
IMDG: International Maritime Code for Dangerous Goods.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
N.D.: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TLV-TWA: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

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