Safety Data Sheet

Revision Date 16-Feb-2021
Version 4.01

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name VANDEX AM 10 LIQUID

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

Recommended Use Sealant

Product category PC10 - Building and construction mixtures not covered elsewhere

1.3 Details of the supplier of the safety data sheet

Supplier

Vandex Isoliermittel-Gesellschaft
Industriestrasse 21
D-21493 Schwarzenbek
Phone: +49 4151 89 15-0
Fax: +49 4151 89 15 50

Tremco CPG Schweiz AG
Sihlbruggstrasse 144
CH-6340 Baar
Phone: +41 41 760 1212
Fax: +41 41 760 13 20

This telephone number is available during office hours only.

For further information, please contact: **ehs@vandex.com**

1.4 Emergency telephone number

Emergency telephone number

Chemtrec: +1 703-527-3887 ex-USA
Chemtrec: 1-800-424-9300 USA

Europe	112
Austria	+43 1 406 43 43
Belgium	Poison center (BE): +32 70 245 245
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Finland	Poison Information Centre (FI):+358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790 Poison Center Nord: +49 551 19240 (24h available English / German)
Ireland	National Poisons Information Centre (IE): +353 1 8379964 / + 353 1 8092566
Iceland	+354 543 2222
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Luxembourg	112
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO):+ 47 22 591300
Portugal	Poison Information Center (PT): +351 800 250 250
Spain	Poison Information Service (ES): +34 91 562 04 20

Sweden	Poisons Information Center (SV):+46 8 33 12 31
Switzerland	Poison Center: Tel 145; +41 44 251 51 51
United Kingdom	111 / 0300 020 0155

2. Hazards identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008
EUH208 - Contains 3-Aminopropyltriethoxysilane May produce an allergic reaction

EUH210 - Safety data sheet available on request

2.3. Other Hazards

Inhalation of aerosol spray may damage health. Product hydrolyses under formation of ethanol (CAS no. 64-17-5). Ethanol is toxic by inhalation, in contact with skin and if swallowed. Ethanol causes damage to organs. Ethanol is highly flammable.

3. Composition/information on ingredients

3.1 Substances

This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures

Chemical nature
Aqueous alkaline solution.

Chemical Name	EC-No	CAS No.	Weight-%	Classification (1272/2008/EC)	REACH Registration Number
Sodium carbonate	207-838-8	497-19-8	2.5 - 10	Eye Irrit. 2 (H319)	01-2119485498-19-XXXX
alpha-i-tridecyl-omega-hydroxypolyglycolether	-	9043-30-5	< 1	Eye Dam. 1, H318; Acute Tox. 4 oral, H302	no data available
Hexadecyltrimethyl-ammoniumchloride	203-928-6	112-02-7	< 0.2	Aquatic Acute 1 (H400) M=10 Aquatic Chronic 1 (H410), M=1 Eye Dam.1 (H318) Acute Tox. 3 (H311) Acute Tox. 4 (H302) Skin Corr. 1C (H314)	no data available
3-Aminopropyltriethoxysilane	213-048-4	919-30-2	< 0.2	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Skin Sens. 1B(H317)	no data available

For the full text of the H-Statements mentioned in this Section, see Section 16

4. First Aid Measures

4.1 Description of first-aid measures

General advice If symptoms persist, call a physician. Remove contaminated clothing and shoes. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation Move to fresh air. If inhaled, remove to fresh air. Call a physician or poison control center immediately.

Skin contact Rinse immediately with plenty of water and seek medical advice. Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Call a physician or poison control center immediately.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion Do NOT induce vomiting. Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Causes burns.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment, Water mist, Carbon dioxide (CO_2), Sand, Dry chemical, Alcohol-resistant foam.

Extinguishing media which shall not be used for safety reasons
High volume water jet.

5.2 Special hazards arising from the substance or mixture

No information available.

Hazardous Combustion Products Carbon oxides Hydrocarbons Silicon dioxide

5.3 Advice for firefighters

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

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions
Ensure adequate ventilation, especially in confined areas. Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Contaminated surfaces will be extremely slippery. Evacuate personnel to safe areas.

Advice for emergency responders
For personal protection see section 8.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

See Section 8, 13 for additional information.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Do not breathe vapors or spray mist. Do not breathe vapors/dust. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

Hygiene measures Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions
Ensure adequate ventilation. Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 5° and 35°C (41° and 95°F).

LGK 8B

7.3 Specific end uses

Specific use(s)
SU19 - Building and construction work

Exposure scenario
No information available.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limit Values This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
3-Aminopropyltriethoxy silane 919-30-2					TWA: 3 ppm TWA: 28 mg/m³ STEL: 6 ppm STEL: 55 mg/m³	

TWA: Time weighted average
STEL: Short term exposure limit
LLV: Exposure Limit Values
STV: Short Term Value

Derived No Effect Level (DNEL) No information available

Oral 3-Aminopropyltriethoxysilane: Consumer / Verbraucher : 5 mg/Kg/d (Tg) / Acute / Longterm

	/ Akut / Langzeit
Dermal	3-Aminopropyltriethoxysilane: 5 mg/Kg/d (Tg) Acute / Longterm/ Akute / Langzeit
Precautionary Statements - Inhalation	3-Aminopropyltriethoxysilane: Consumer / Verbraucher: 17,4 mg/m³ (Acute / Akut) // 17,0 mg/m³ (Longterm/ Langzeit)
Dermal	3-Aminopropyltriethoxysilane: Worker / Arbeiter : 8,3 mg/Kg/d (Tg) / Acute / Akut // Longterm / Langzeit
Precautionary Statements - Inhalation	3-Aminopropyltriethoxysilane: Worker / Arbeiter : 59 mg/m³ / Acute / Akut // Longterm / Langzeit
Predicted No Effect Concentration (PNEC)	No information available
Fresh Water	3-Aminopropyltriethoxysilane: 0,33 mg/l
Sea Water	3-Aminopropyltriethoxysilane: 0,033 mg/l
Soil	3-Aminopropyltriethoxysilane: 0,04 mg / Kg (dry weight / Trockengewicht)
Impact on Sewage Treatment	3-Aminopropyltriethoxysilane: 13 mg/l

8.2 Exposure controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection	Tightly fitting safety goggles. Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to handling and processing of material.
Hand Protection	Rubber/latex/neoprene or other suitable chemical resistant gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.
Skin and body protection	Long sleeved clothing. Chemical resistant apron. Wear impervious gloves and/or clothing if needed to prevent contact with the material.
Respiratory protection	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Recommended Filter type:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. ABEK-P2 acc. EN 14387 .
Hygiene measures	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Environmental Exposure Controls	No information available.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	aqueous solution
Color	White
Odor	slightly aromatic
Odor Threshold	No information available

Property	**Values**	**Remarks**
pH	11.21	
Melting/freezing point		No information available
Boiling point/boiling range	app. 100 °C	
Flash Point	> 100 °C	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity		No information available
Water solubility	Hydrolytic decomposition under release of ethanol occurs. Explosion limits for released ethanol: 3.5-15%(V).	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

9.2 Other information

Volatile organic compounds (VOC) content No information available

10. Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Protect from frost, heat and sunlight. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible Materials

Acids, Bases

10.6 Hazardous Decomposition Products

Ethanol.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information
Product does not present an acute toxicity hazard based on known or supplied information at the Product level.

Inhalation	May cause irritation.
Eye contact	May cause irritation.
Skin contact	Causes burns.
Ingestion	Causes burns.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal)	48,889.00 mg/kg
ATEmix (inhalation-dust/mist)	44.00 mg/l

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium carbonate	4090 mg/kg (Rat)		= 2300 mg/m³ (Rat) 2 h

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity	No information available.
Specific target organ systemic toxicity (single exposure)	No information available.
Specific target organ systemic toxicity (repeated exposure)	No information available.
Target Organs	Eyes. Skin. Respiratory system. Lungs.
Other adverse effects	Product of hydrolysis (Ethanol): Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.
Aspiration hazard	No information available.

12. Ecological information

12.1 Toxicity

Ecotoxicity effects
Discharge to water will affect pH and harm aquatic organisms. Neutralization is normally necessary before waste water is discharged into water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium carbonate		LC50: 96 h Lepomis macrochirus 300 mg/L static LC50: 96 h Pimephales promelas 310 - 1220 mg/L static	EC50: 48 h Daphnia magna 265 mg/L

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects.

No information available.

13. Disposal Considerations

13.1 Waste treatment methods

Waste from residues / unused If recycling is not practicable, dispose of in compliance with local regulations.

products

Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EWC Waste Disposal No	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific

14. Transport Information

ADR

14.1 UN	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

IMDG

14.1 UN	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine pollutant	Not regulated
Environmental hazard	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code	No information available

IATA

14.1 UN	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

15. Regulatory information

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

National regulatory information

Germany WGK Classification WGK = 1 (self classification)

European Union

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Take note of Dir 94/33/EC on the protection of young people at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL	Complies
PICCS	Complies
ENCS	-
IECSC	Complies
AICS	Complies
KECL	Complies
NZIoC	Complies

Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2 Chemical Safety Assessment

No information available

16. Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H318 - Causes serious eye damage
H311 - Toxic in contact with skin
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction

Prepared By	Vandex Regulatory Affairs/Product Safety
Revision Date	16-Feb-2021
Revision Note	(M)SDS sections updated, 1, 16.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet