

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.01.2022

Version number 2 (replaces version 1)

Revision: 10.01.2022

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

- 1.1 Product identifier

- Trade name: **STC**

- UFI: **NDK0-80AA-Q00J-7SNK**

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

- Life cycle stages **PW** Widespread use by professional workers

- Sector of Use **SU22** Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- Product category **PC1** Adhesives, sealants

- Application of the substance / the mixture **Sealant**

- Uses advised against

The mixture is not recommended for industrial, professional and consumer applications not specified as relevant identified uses

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

MA-FRA S.p.A. a Socio Unico

Via Aquileia, 44/46

20021 Baranzate (MI) ITALIA

Tel. +39 023569981

www.mafra.com

mafra@mafra.it

- Informing department:

E-mail: lab@mafra.it

info@mafra.it

- 1.4 Emergency telephone number: In case of accident call the emergency number 112

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

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



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



health hazard

STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 2.2 Label elements

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

The product is classified and labelled according to the CLP regulation.

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- Hazard pictograms

GHS02 GHS07 GHS08

- Signal word *Danger***- Hazard-determining components of labelling:***di-n-butyl ether***- Hazard statements***H225 Highly flammable liquid and vapour.**H315 Causes skin irritation.**H319 Causes serious eye irritation.**H372 Causes damage to the central nervous system through prolonged or repeated exposure.**H412 Harmful to aquatic life with long lasting effects.***- Precautionary statements***P102 Keep out of reach of children.**P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P261 Avoid breathing mist/vapours/spray.**P280 Wear protective gloves / 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.**P403+P235 Store in a well-ventilated place. Keep cool.**P501 Dispose of contents/container in accordance with local/regional/national/international regulation***- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures**- Description:** Mixture of substances**- Dangerous components:**

CAS: 142-96-1 EINECS: 205-575-3	<i>di-n-butyl ether</i> ----- ⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412 ----- Specific concentration limit: STOT SE 3; H335: C ≥ 10 %	25-35%
CAS: 68037-85-4 EC number: 614-229-4	<i>Methoxy siloxanes</i> ----- ⚠ Flam. Liq. 3, H226	25-35%
CAS: 8052-41-3 EINECS: 232-489-3	<i>Stoddard solvent</i> ----- ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 1, H372; Asp. Tox. 1, H304	5-10%
CAS: 1185-55-3 EINECS: 214-685-0 Reg.nr.: 01-2119517436-40	<i>trimethoxy(methyl)silane</i> ----- ⚠ Flam. Liq. 2, H225	3-5%

- Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures**- General information***Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

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- Instantly remove any clothing soiled by the product.*
- **After inhalation**
*In case of unconsciousness bring patient into stable side position for transport.
Supply fresh air; consult doctor in case of symptoms.*
 - **After skin contact**
*Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.*
 - **After eye contact** *Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.*
 - **After swallowing**
*In case of persistent symptoms consult doctor.
Do not induce vomiting; instantly call for medical help.*
 - **4.2 Most important symptoms and effects, both acute and delayed**
*Sickness
No further relevant information available.*
 - **4.3 Indication of any immediate medical attention and special treatment needed**
*If swallowed, gastric irrigation
Medical supervision for at least 48 hours*

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
*CO₂, sand, extinguishing powder. Do not use water.
Use fire fighting measures that suit the environment.*
- **For safety reasons unsuitable extinguishing agents**
*Water.
Water with a full water jet.*
- **5.2 Special hazards arising from the substance or mixture**
*Can be released in case of fire
Carbon monoxide (CO)*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Do not inhale explosion gases or combustion gases.*
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
*Bring persons out of danger.
Keep away from ignition sources*
- **6.2 Environmental precautions:**
*Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.*
- **6.3 Methods and material for containment and cleaning up:**
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.*
- **6.4 Reference to other sections**
*See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.*

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.

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Use only in well ventilated areas.

Store in cool, dry place in tightly closed containers.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

- 7.2 Conditions for safe storage, including any incompatibilities**- Storage****- Requirements to be met by storerooms and containers:**

Store in cool location.

Store only in the original container.

- Information about storage in one common storage facility: Not required.**- Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

- Class according to regulation on inflammable liquids: A 1**- 7.3 Specific end use(s) No further relevant information available.****SECTION 8: Exposure controls/personal protection****- 8.1 Control parameters****- Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs**1185-55-3 trimethoxy(methyl)silane**

Inhalative	Systemic long-term effects	260 mg/m ³ (Industrial Workers) 50 mg/m ³ (Consumers)
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5593-70-4 tetra-n-butoxytitanium

Oral	Systemic Long-term Effects	3.75 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	37.5 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	127 mg/m ³ (Industrial Workers) 152 mg/m ³ (Consumers)

- PNECs**5593-70-4 tetra-n-butoxytitanium**

PNEC STP	65 mg/L (STP)
Soil	0.017 mg/Kg (Soil)
Soft Water	0.08 mg/L (Water)
Sea water	0.008 mg/L (Water)
Sediment (soft water)	0.069 mg/Kg (Soil)
Sediment (sea water)	0.007 mg/Kg (Soil)

- Additional information: The lists that were valid during the compilation were used as basis.**- 8.2 Exposure controls****- Appropriate engineering controls** No further data; see item 7.**- Individual protection measures, such as personal protective equipment****- General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

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- Breathing equipment:

Breathing protection recommended.

Filter A/P2.

- Hand protection

Protective gloves. (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of glovesRecommended thickness of the material: ≥ 0.5 mm

Nitrile rubber, NBR

PVC gloves

- Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 240 minutes (Permeation according to EN 16523-1:2015: Level 5).

- Eye/face protection

Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information**

- Colour:	Colourless
- Odour:	Solvent-like
- Odour threshold:	Not determined.
- Melting point/freezing point:	Not determined
- Boiling point or initial boiling point and boiling range	100 °C
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	0.9 Vol %
- Upper:	8.5 Vol %
- Flash point:	16 °C
- Self-inflammability:	Product is not selfigniting.
- Decomposition temperature:	Not determined.
- pH	Not applicable.
- Viscosity:	
- Kinematic viscosity	Not determined.
- dynamic:	Not determined.
- Solubility	
- Water:	Not miscible or difficult to mix
- Partition coefficient n-octanol/water (log value)	Not determined.
- Vapour pressure at 20 °C:	400 hPa
- Density and/or relative density	
- Density at 20 °C	0.93 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.

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- 9.2 Other information**- Appearance:****- Form:** Fluid**- Important information on protection of health and environment, and on safety.****- Ignition temperature:** 175 °C**- Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.**- Change in condition****- Evaporation rate** Not determined.**- Information with regard to physical hazard classes****- Explosives** Void**- Flammable gases** Void**- Aerosols** Void**- Oxidising gases** Void**- Gases under pressure** Void**- Flammable liquids**
Highly flammable liquid and vapour.**- Flammable solids** Void**- Self-reactive substances and mixtures** Void**- Pyrophoric liquids** Void**- Pyrophoric solids** Void**- Self-heating substances and mixtures** Void**- Substances and mixtures, which emit flammable gases in contact with water** Void**- Oxidising liquids** Void**- Oxidising solids** Void**- Organic peroxides** Void**- Corrosive to metals** Void**- Desensitised explosives** Void**SECTION 10: Stability and reactivity****- 10.1 Reactivity** Stable under normal conditions**- 10.2 Chemical stability****- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**- 10.3 Possibility of hazardous reactions** Flammable**- 10.4 Conditions to avoid** No further relevant information available.**- 10.5 Incompatible materials:** Flammable**- 10.6 Hazardous decomposition products:** No dangerous decomposition products known**SECTION 11: Toxicological information****- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****- Acute toxicity** Based on available data, the classification criteria are not met.**- LD/LC50 values that are relevant for classification:****142-96-1 di-n-butyl ether**

Oral LD50 7,400 mg/Kg (Rat)

Dermal LD50 10,000 mg/Kg (Rabbit)

1185-55-3 trimethoxy(methyl)silane

Oral LD50 11,685 mg/Kg (Rat)

Dermal LD50 >9,500 mg/Kg (Rabbit)

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5593-70-4 tetra-n-butoxytitanium

Oral	LD50	>2,000 mg/Kg (Rat)
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- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation

Causes serious eye irritation.

- 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.**- STOT-single exposure** Based on available data, the classification criteria are not met.**- STOT-repeated exposure**

Causes damage to the central nervous system through prolonged or repeated exposure.

- Aspiration hazard Based on available data, the classification criteria are not met.**- 11.2 Information on other hazards****- Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**- 12.1 Toxicity****- Aquatic toxicity:****1185-55-3 trimethoxy(methyl)silane**

LC50 (96h) >110 mg/L (Fish)

EC50 (48h) >122 mg/L (Daphnia)

EC50 (72h) >3.6 mg/L (Algae)

5593-70-4 tetra-n-butoxytitanium

LC50 (96h) 1,740 mg/L (Fish)

EC50 (48h) 1,983 mg/L (Daphnia)

- 12.2 Persistence and degradability No further relevant information available.**- 12.3 Bioaccumulative potential** No further relevant information available.**- 12.4 Mobility in soil** No further relevant information available.**- 12.5 Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**- 12.7 Other adverse effects****- Remark:** Harmful to fish**- Additional ecological information:****- General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

Harmful to aquatic organisms

SECTION 13: Disposal considerations**- 13.1 Waste treatment methods****- Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN number or ID number - ADR, IMDG, IATA	UN1993
- 14.2 UN proper shipping name - ADR - IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50°C not more than 110 kPa) (DIBUTYL ETHERS) FLAMMABLE LIQUID, N.O.S. (DIBUTYL ETHERS, Methoxy siloxanes)
- 14.3 Transport hazard class(es) - ADR, IMDG, IATA	
- Class - Label	3 Flammable liquids. 3
- 14.4 Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user - Kemler Number: - EMS Number: - Stowage Category	Warning: Flammable liquids. 33 F-E, S-E B
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- Transport category - Tunnel restriction code - IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	2 D/E 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

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- **National regulations**
- **Classification according to VbF: A 1**
- **Technical instructions (air):**

Class	Share in %
NK	30.0

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

- **Department issuing data specification sheet:** Ma-Fra Laboratories

- **Contact:** lab@mafra.it

- Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- * **Data compared to the previous version altered.**