



ALTRO Sanitary Sealant

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 7/02/2019 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : ALTRO Sanitary Sealant A802/A803/A805

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Altro Limited
Works Road
Letchworth Garden City
Hertfordshire SG6 1NW - United Kingdom
T +44(0)1462 480480
sds@altro.com

1.4. Emergency telephone number

| Country | Official advisory body | Address | Emergency number | Comment |
|----------------|---|---------------------------------|------------------|---------|
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | +44 20 7188 7188 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements : EUH208 - Contains N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine, Methyl tris-(methyl ethyl ketoximo) silane, 3-(2-aminoethylamino)propyltrimethoxysilane, Tetrakis(methylethylketoximino)silane, 3-aminopropyltriethoxysilane. May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

2.3. Other hazards

Contains PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|---|
| Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics | (CAS-No.) 1437280-85-7 (EC-No.) 940-734-7 (REACH-no) 01-2120078782-46 | 10 - 25 | Asp. Tox. 1, H304 |
| Methyl tris-(methyl ethyl ketoximo) silane | (CAS-No.) 22984-54-9 (EC-No.) 245-366-4 (REACH-no) 01-2119987100-43 | 1 - 5 | Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 |
| Dodecamethylcyclhexasiloxaan substance listed as REACH Candidate (Dodecamethylcyclhexasiloxane (D6)) PBT substance vPvB substance | (CAS-No.) 540-97-6 (EC-No.) 208-762-8 | 0,1 - 1 | Not classified |

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Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|--|---|---------------------------------------|
| Methyl tris-(methyl ethyl ketoximo) silane | (CAS-No.) 22984-54-9 (EC-No.) 245-366-4 (REACH-no) 01-2119987100-43 | (3,755 =<C < 100) Skin Sens. 1, H317 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures after inhalation | : Remove victim to fresh air. |
| First-aid measures after skin contact | : After contact with skin, wash immediately and thoroughly with water and soap. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Seek medical attention if ill effect or irritation develops. |
| First-aid measures after ingestion | : Rinse mouth. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|---|
| Symptoms/effects after inhalation | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use. |
| Symptoms/effects after eye contact | : Direct contact with the eyes is likely slightly irritating. |
| Symptoms/effects after ingestion | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|------------------------------------|
| Suitable extinguishing media | : All extinguishing media allowed. |
|------------------------------|------------------------------------|

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Precautionary measures fire | : Exercise caution when fighting any chemical fire. Evacuate unnecessary personnel. Do not breathe fumes from fires or vapours from decomposition. |
| Firefighting instructions | : Cool down the containers exposed to heat with a water spray. |
| Protection during firefighting | : Wear a self contained breathing apparatus. |
| Other information | : Do not allow run-off from fire fighting to enter drains or water courses. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : [In case of inadequate ventilation] wear respiratory protection. Equip cleanup crew with proper protection. |
|------------------|---|

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| Methods for cleaning up | : On land, sweep or shovel into suitable containers. |
|-------------------------|--|

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|----------------------|---|
| Handling temperature | : 5 - 40 °C |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|---------------------------------------|
| Storage conditions | : Store in dry, well-ventilated area. |
| Maximum storage period | : 12 months |

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Storage temperature : 5 - 25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Time of penetration is to be checked with the glove producer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-------------------|----------------------|------------|----------------|-------------|------------|
| Disposable gloves | Nitrile rubber (NBR) | | > 0,1 | | EN ISO 374 |

Eye protection:

| Type | Use | Characteristics | Standard |
|----------------|---------|-------------------|----------|
| Safety glasses | Droplet | With side shields | EN 166 |

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

| Device | Filter type | Condition | Standard |
|----------|-------------|---|----------|
| Gas mask | ABEK | If conc. in air > exposure limit, Long term exposure | |

Personal protective equipment symbol(s):



Consumer exposure controls:

Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Wash hands and other exposed areas with soap and water before leaving work.

Other information:

Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------------------------|
| Physical state | : Liquid |
| Appearance | : Paste. |
| Colour | : According to product specification. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |

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| | |
|----------------------------------|----------------------|
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1,39 g/ml |
| Solubility | : Water: Negligible. |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)

| | |
|-----------------|--------------------------------|
| LD50 oral rat | 2463 mg/kg (OECD 401 method) |
| LD50 dermal rat | > 2000 mg/kg (OECD 402 method) |

Dodecamethylcyclhexasiloxaan (540-97-6)

| | |
|-----------------|--------------|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics (1437280-85-7)

| | |
|-----------------------------------|------------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)

| | |
|-----------------------------|--------------------------------|
| NOAEL (animal/male, F0/P) | >= 250 mg/kg (OECD 422 method) |
| NOAEL (animal/female, F0/P) | >= 250 mg/kg (OECD 422 method) |

| | |
|------------------------|------------------|
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

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Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)

| | |
|--|---------------------------------------|
| LOAEL (oral, rat, 90 days) | 50 mg/kg bodyweight/day |
| NOAEL (subacute, oral, animal/male, 28 days) | 10 mg/kg bodyweight (OECD 422 method) |

Dodecamethylcyclohexasiloxaan (540-97-6)

| | |
|---------------------------------------|-----------------------------|
| LOAEL (oral, rat, 90 days) | ≈ 1000 mg/kg bodyweight/day |
| LOAEC (inhalation, rat, gas, 90 days) | 10 ppmv/6h/day |

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)

| | |
|--------------------|--|
| LC50 fish 1 | > 120 mg/l Oncorhynchus mykiss (Rainbow trout) |
| LC50 fish 2 | 972,34 mg/l (OECD 203 method) |
| EC50 Daphnia 1 | 231,84 mg/l (OECD 202 method) |
| EC50 72h algae (1) | 18,45 mg/l (OECD 201 method) |
| ErC50 (algae) | 72h 94 mg/l Pseudokirchneriella subcapitata |
| NOEC (acute) | 57,67 mg/l (OECD 204 method) |
| NOEC (chronic) | >= 115,34 mg/l (OECD 211 method) |
| NOEC chronic fish | 57,67 mg/l |

Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics (1437280-85-7)

| | |
|--------------------|------------|
| LC50 fish 1 | > 100 mg/l |
| EC50 Daphnia 1 | > 100 mg/l |
| EC50 72h algae (1) | > 100 mg/l |

12.2. Persistence and degradability

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)

| | |
|----------------|----------------------------|
| Biodegradation | 28d 0 % (OECD 301A method) |
|----------------|----------------------------|

Dodecamethylcyclohexasiloxaan (540-97-6)

| | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 4,5 % (OECD 310 method) |

12.3. Bioaccumulative potential

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)

| | |
|---------|------|
| Log Pow | 9,83 |
|---------|------|

Dodecamethylcyclohexasiloxaan (540-97-6)

| | |
|---------|------|
| Log Pow | 8,87 |
| Log Kow | 8 |

Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics (1437280-85-7)

| | |
|---------|-------|
| Log Pow | > 7,2 |
|---------|-------|

12.4. Mobility in soil

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)

| | |
|---------|---|
| Log Koc | 5,481 EPA (Environmental Protection Agency) |
|---------|---|

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12.5. Results of PBT and vPvB assessment

Component

| | |
|---|---|
| Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Dodecamethylcyclohexasiloxaan (540-97-6) | This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII |

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-----------------------------------|--|
| Regional legislation (waste) | : Disposal must be done according to official regulations. |
| European List of Waste (LoW) code | : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09 |

SECTION 14: Transport information

In accordance with ADR

| ADR | |
|--|----------------|
| 14.1. UN number | Not applicable |
| 14.2. UN proper shipping name | Not applicable |
| 14.3. Transport hazard class(es) | Not applicable |
| 14.4. Packing group | Not applicable |
| 14.5. Environmental hazards | Not applicable |
| No supplementary information available | |

14.6. Special precautions for user

Overland transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

| | |
|--|---|
| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Methyl tris-(methyl ethyl ketoximo) silane - Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics |
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | Methyl tris-(methyl ethyl ketoximo) silane |

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Dodecamethylcyclohexasiloxane (D6) (EC 208-762-8, CAS 540-97-6)

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

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Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

| | |
|--------------|--|
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| EUH208 | Contains N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine, Methyl tris-(methyl ethyl ketoximo) silane, 3-(2-aminoethylamino)propyltrimethoxysilane, Tetrakis(methylethylketoximino)silane, 3-aminopropyltriethoxysilane. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request. |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product