Printing date 04.02.2020

CAS: 160738-91-0

Version 3

Revision: 04.02.2020

undertaking		
· 1.1 Product identifier		
• Trade name: <u>OTTOSEAL S</u> • Application of the substand	27 e / the mixture Silicone sealant	
• 1.3 Details of the supplier o • Manufacturer/Supplier: Hermann Otto GmbH Krankenhausstraße 14 D-83413 Fridolfing Tel.: 0049/(0)8684/908-0 Fax.: 0049/(0)8684/908-539	f the safety data sheet	
• Further information obtaina Tel.: 0049- (0)8684- 908- 641 E-Mail: alois.parzinger@otto- • 1.4 Emergency telephone n	(-460)	
	Regulation (EC) No 1272/2008 according to the CLP regulation.	
	ulation (EC) No 1272/2008 Void	
· Hazard statements Void		
 Additional information: Ensure good ventilation during 	a application and curing.	
Safety data sheet available of		
	ring process of the material chemicals are released as vapour (s bod ventilation or exhaustion if necessary. ssessment	see
• PBT: Not applicable.		
• vPvB: Not applicable.		
SECTION 3: Compositi	on/information on ingredients	
· 3.2 Chemical characterisati	on: Mixtures oxane, filler, auxiliaries and acetoxysilane crosslinker	
Dangerous components:		
CAS: 17689-77-9 EINECS: 241-677-4 Reg.nr.: 01-2119881778-15-x	ethyltriacetoxysilane ♦ Skin Corr. 1A, H314; Eye Dam. 1, H318; ♦ Acute Tox. xxx 4, H302	<2.5
CAS: 4253-34-3 EINECS: 224-221-9	methylsilanetriyl triacetate ♦ Skin Corr. 1C, H314; Eye Dam. 1, H318; ♦ Acute Tox.	<2.5
Reg.nr.: 01-2119962266-32-x		

Skin Corr. 1B, H314; Eye Dam. 1, H318
 Additional information For the wording of the listed hazard phrases refer to section 16.

Oligomere und Polymere von Methyltriacetoxysilan

(Contd. on page 2)

<2.5%

GB

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

Printing date 04.02.2020

Version 3

Revision: 04.02.2020

Trade name: OTTOSEAL S 27

(Contd. of page 1)

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· After skin contact

Immediately 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. Then consult a doctor.
- · After swallowing

Do not induce vomiting; call for medical help immediately. Show container or label.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- · Protective equipment:

Mount respiratory protective device.

Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.

• 6.4 Reference to other sections See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. see item 8: Personal protective equipment

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

(Contd. on page 3)

GB

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

Printing date 04.02.2020

Version 3

Revision: 04.02.2020

Trade name: OTTOSEAL S 27

Ingredients with limit values that require monitoring at the workplace: 64-19-7 acetic acid OEL. Short-term value: 37 mg/m3, 15 ml/m3 Long-term value: 37 mg/m3, 10 ml/m3 Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Personal protective equipment General protective equipment measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: This product with the eyes and skin. Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type ABEK according to standard EN 14387) is used. Protection of hands: Protective gioves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mar of quality and varies from manufacturer to manufacturer. Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Not applicable. Change in condition Melting point/freezing point: undetermined. Initial boiling point and boiling range: Not applicable Decomposition temperature: Not determined. Initial boiling point and boiling range: Not applicable Explosive properties: Product is not selfigniting. Explosive properties: Product does not present an explosion hazard. Explosion limits: Lower: not applicable Discomposition temperature: Not determined. Initial boiling properties: Not determined. Displicable Displicable Displicable Displicable Displicable Density: see technical datasheet Vapour density Not determined. Not applicable.		(Contd. of page
64-19-7 acetic acid OEL Short-term value: 37 mg/m3, 15 ml/m3 Long-term value: 25 mg/m3, 10 ml/m3 Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Personal protective and hygienic measures The usual protective and hygienic measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filler (i.e. type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mar of quality and varies from manufacturer to manufacturer. Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Srfety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information Appearance: Porm: pasty Colour: According to product specification Odour: Not applicable. Change in condition Meting point/freezing point: undetermined. Initial boiling not and boiling range: Not applicable Decomposition temperature: Not determined. Initial boiling not and boiling range: Not applicable Change in condition Meting point/freezing point: Not determined. Auto-ignition temperature:	8.1 Control parameters	onuire monitoring at the workplace:
OEL Short-term value: 37 mg/m3, 15 ml/m3 Long-term value: 25 mg/m3, 10 ml/m3 Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Personal protective equipment General protective equipment General protective equipment General protective and hygienic measures The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (it. type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mar of quality and varies from manufacturer to manufacturer. Recommended glove types: initrie rubber Recommended flokkness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/treezing point: undetermined. Initial boiling not and boiling range: Not applicable Decomposition temperature: Product is not selfigniting. Explosion limits: Lower: not applicable Lower: not applicable Definition Dypericable <t< th=""><th></th><th>gune momtoring at the workplace.</th></t<>		gune momtoring at the workplace.
Long-term value: 25 mg/m3, 10 ml/m3 Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Personal protective equipment General protective equipments General protective equipment General protective and hygienic measures The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: This product with the eyes and skin. Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mare of quality and varies from manufacturer to manufacturer. Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information Appearance: Form: pasty Colour: Acc		ml/m3
8.2 Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: This product with the eyes and skin. Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mare of quality and varies from manufacture to manufacturer. Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Ereakthrough time: > 120 min Eye protection: Safety glasses Body protection: Safety glasses Body protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point and boiling range: Not applicable Flash point: Not applicable Explosive properties: Product is not selfigniting. Explosive properties: Product does not present an explosion hazard. Explosion limits: Lower: not applicable Ovid is properties Not determined. Not determined. Not applicable Density: see technical datasheet Yapour density Not determined. Not applicable Evaporation rate Not applicable. Not applicable Not determined. Not applicable Not applicable. Not applicable Not applicable Not determined. Not applicable Not determined. Not applicable Not a	Long-term value: 25 mg/m3, 10 m	ml/m3
Personal protective equipment General protective and hygienic measures The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (1.e.type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mare of quality and varies from manufacture to manufacturer. Recommended glove types: nitrile rubber Recommended glove types: nitrile rubber Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Ereakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point and boiling range: Not applicable Flash point: Not applicable Flash point: Not applicable Flash point: Product is not selfigniting. Explosive properties: Product is not selfigniting. Explosive properties: Product does not present an explosion hazard. Explosion limits: Lower: not applicable Decomposition temperature: Not determined. Pulper: not applicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Displicable Not determined. Not determined. Not applicable Evaporation rate Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. No	Additional information: The lists vali	id during the making were used as basis.
General protective and hygienic measures The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marr of quality and varies from manufacturer to manufacturer. Recommended thickness of the material ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Penetration time of glove material Breakthrough time: > 120 min Penetration time of glove material Breakthrough time: > 120 min Penetration time of glove material Breakthrough time: > 120 min Penetration time of glove material and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not applicable. Change in condition Melting point/freezing point: undetermined. Auto-ignition temperature: Product is not selfigniting. Explosion limits: Lower: not applicable Lexplosion limits: Lower: not applicable Lower: not applicable Coxidising properties Not determined. Not determined. Puper: not applicable Coxidising properties Not determined. Puper: not applicable Coxidising properties Not determined. Puper: not applicable Coxidising properties Not determined. Puper: Not applicable Lower: Not applicable Lower: Not applicable Coxidising properties Not determined. Puper: Not applicable Coxidising properties Not determined. Puper: Not applicable Coxidising properties Not determined. Not determined. Puper: Not applicable Coxidising properties Not determined. Not		
The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marc of quality and varies from manufacturer to manufacturer. Recommended glove types: nitrile rubber Recommended thickness of the material ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not determined Initial boiling point and boiling range: Not applicable. Change in condition Melting pointfreezing point: undetermined. Auto-ignition temperature: Product is not selfigniting. Explosion temperature: Not determined. Auto-ignition temperature: Not applicable Explosion limits: Lower: not applicable Upper: Not applicable Evaporation rate Not applicable. Evaporation rate Not applicable. Evaporation temperature Not applicable Not applicable Evaporation temperature: Not determined. Not applicable Evaporation temperature: Not determined. Not applicable Evaporation temperature: Not applicable Explosion limits: Lower: Not applicabl		
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mar of quality and varies from manufacturer to manufacturer. Recommended glove types: nitrile rubber Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/freezing point: undetermined. Initial boiling point and boiling range: Not applicable Flash point: Not applicable Flash point: Not applicable Flash point: Not applicable Explosion temperature: Product is not selfigniting. Explosion limits: Lower: not applicable Decomposition temperature: Not determined. Auto-ignition temperature: Not determined. Auto-ignition temperature: Not determined. Auto-ignition temperature: Not determined. Explosion limits: Lower: not applicable Decomposition temperature: Not determined. Auto-ignition temperature: Not determined. Auto-ignition temperature: Not determined. Density: see technical datasheet Vapour pressure: Not determined. Explosion limits: Lower: Not determined. Density: See technical datasheet Vapour pressure: Not determined. Explosion rate Not applicable. Evaporation rate Not applicable. Not applicab		
Respiratory protection: This product should not be used under conditions of poor ventilation unless a protective mask will an appropriate gas filter (i.e. type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mar of quality and varies from manufacturer to manufacturer. Recommended glove types: nitrile rubber Recommended glove types: nitrile rubber Recommended glove glasses Body protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour threshold: Not determined. pH-value: Not applicable. Change in condition Metersined. Meting point/freezing point: undetermined. Initial boiling noin and boiling range: Not applicable Flash point: Not determined. Lower: not applicable Flash point: Not determined. Lower: not applicable Oxidising	Wash hands before breaks and at the	
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type ABEK according to standard EN 14387) is used. Protection of hands: Protective gioves. Material of gloves of quality and varies from manufacturer to manufacturer. Recommended glove types: nitrile rubber Recommended thickness of the material: > 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/freezing point: undetermined Initial boiling range: Not applicable Fiash point: Not determined. Auto-ignition temperature: Product is not selfigniting. Explosion temperature: Product is not selfigniting. Explosion temperature: Not determined. Explosion limits: Lower: not applicable Oxidising properties: Product is not selfigniting. Explosion limits: Lower: not applicable Oxidising properties: Not determined. Explosion limits: Lower: Not applicable Oxidising properties: Not determined. Explosion limits: Lower: Not applicable Oxidising properties: Not applicable Oxidising properties: Not applicable Oxidising properties: Not applicable Oxidising properties: Not determined. Density: see technical datasheet Vapour pressure: Not determined. Not applicable. Explosion tapper Not determined. Not applicable. Not applicable. No	-	
an apropriate gas filter (i.e.type ABEK according to standard EN 14387) is used. Protection of hands: Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mar of quality and varies from manufacturer to manufacturer. Recommended glove types: nitrile rubber Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: Pungent Odour threshold: Not determined. pH-value: Not applicable Change in condition Melting point and boiling range: Not applicable Flash point: Product is not selfigniting. Explosion temperature: Product is not selfigniting. Explosion limits: Lower: not applicable Oxidising properties Not determined. Not determined. Explosion limits: Lower: Not applicable Oxidising properties Not determined. Explosion limits: Lower: Not applicable Oxidising properties Not determined. Explosion limits: Lower: Not applicable Oxidising properties Not determined. Explosion limits: Lower: Not applicable Oxidising properties Not determined. Explosion limits: Lower: Not applicable Oxidising properties Not determined. Explosion limits: Lower: Not applicable Oxidising properties Not determined. Explosion limits: Lower: Not applicable Oxidising properties Not determined. Explosion limits: Lower: Not applicable Oxidising properties Not determined. Explosion limits: Lower: Not applicable Oxid determined. Auto-ignition temperature: Not applicable Oxid determined. Explosion limits: Lower: Not applicable Oxid determined. Explosion limits: Lower: Not applicable Oxid determined. Not determined. Explosion limits: Lower: Not applicable Oxid determined. Not determined. Not applicable Explosion limits: Not applicable Explosion limits Explosion limits: Lower: N		r conditions of poor ventilation unless a protective mask with
Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further mar of quality and varies from manufacturer to manufacturer. Recommended glove types: nitrile rubber Recommended thickness of the material: > 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: Colour: Pungent Odour threshold: Not determined. pH-value: Not applicable Change in condition Melting point/meerature: Not applicable Flash point: Lexplosion temperature: Product is not selfigniting. Explosion limits: Lower: Lower: Not applicable Oxidising properties Not determined. Density: See technical datasheet Not applicable Evaporation rate Not applicable. Not determined.	an appropriate gas filter (i.e.type ABEI	K according to standard EN 14387) is used.
The selection of the suitable gloves does not only depend on the material, but also on further man of quality and varies from manufacturer to manufacturer. Recommended glove types: nitrite rubber Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/freezing point: undetermined Initial boiling point and boiling range: Not applicable Flash point: Not determined. Auto-ignition temperature: Product is not selfigniting. Explosive properties: Product is not selfigniting. Explosine limits: Lower: not applicable Oxidising properties Not determined. Explosine limits: Lower: Not determined. Purgent: Not determined. Explosine limits: Lower: Not determined. Explosine limits: Lower		es.
of quality and varies from manufacturer to manufacturer. Recommended glove types: nitrile rubber Recommended thickness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/freezing point: undetermined Initial boiling point and boiling range: Not applicable Flash point: Not applicable Explosive properties: Product is not selfigniting. Explosive properties: Not determined. Explosion limits: Lower: not applicable Oxidising properties Not determined. Vapour pressure: Not determined. Explosion properties Not determined. Explosion limits: Lower: not applicable Oxidising properties Not determined. Vapour pressure: Not determined. Explosion limits: Explosion limits: Lower: not applicable Oxidising properties Not determined. Vapour pressure: Not determined. Vapour pressure: Not determined. Explosible Price Not applicable Density: see technical datasheet Vapour density Not determined. Not applicable. Evaporation rate Not applicable. Not determined.		pes not only depend on the material. but also on further mark
Recommended inickness of the material: ≥ 0.1 mm Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties SECTION 9: Physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour threshold: Not determined. pH-value: Not applicable. Change in condition undetermined Initial boiling point: undetermined Initial boiling point Not applicable Flash point: Not applicable Decomposition temperature: Product is not selfigniting. Explosion limits: Lower: Lower: not applicable Oxidising properties Not determined. Oxidising properties Not applicable Density: see technical datasheet Vapour pressure: Not determined. Density: see technical datasheet Vapour density Not determined. Not applicable.	of quality and varies from manufacture	er to manufacturer.
Penetration time of glove material Breakthrough time: > 120 min Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/freezing point: Melting point/freezing point: undetermined Initial boiling point and boiling range: Not applicable Flash point: Not determined. Auto-ignition temperature: Product is not selfigniting. Explosion limits: Lower: Lower: not applicable Oxidising properties Not determined. Vapour pressure: Not determined. Density: see technical datasheet Vapour density Not determined. Not applicable. Not applicable. Evaporation rate Not determined.		
Eye protection: Safety glasses Body protection: Protective work clothing. SECTION 9: Physical and chemical properties General Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour: Not determined. pH-value: Not applicable. Change in condition Melting point freezing point: Melting point freezing point: undetermined Initial boiling point and boiling range: Not applicable Decomposition temperature: Not determined. Auto-ignition temperature: Product is not selfigniting. Explosive properties: Product does not present an explosion hazard. Explosion limits: Lower: Lower: not applicable Oxidising properties Not determined. Oxidising properties Not determined. Density: see technical datasheet Vapour density Not determined. Not applicable. Not applicable. Density: see technical datasheet		
SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not determined. pH-value: Not applicable. Change in condition undetermined Initial boiling point/freezing point: undetermined Initial boiling point and boiling range: Not applicable Flash point: Not applicable Decomposition temperature: Product is not selfigniting. Explosive properties: Product does not present an explosion hazard. Explosion limits: Lower: Lower: not applicable Oxidising properties Not determined. Vapour pressure: Not determined. Density: see technical datasheet Vapour density Not determined. Not applicable. Not applicable. Evaporation rate Not applicable.		······································
9.1 Information on basic physical and chemical properties General Information Appearance: Form: pasty Colour: According to product specification Odour: Pungent Odour threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/freezing point: undetermined Initial boiling point and boiling range: Not applicable Flash point: Not applicable Flash point: Not determined. Auto-ignition temperature: Not determined. Auto-ignition temperature: Product is not selfigniting. Explosive properties: Product does not present an explosion hazard. Explosion limits: Lower: not applicable Oxidising properties Not determined. Auto-ignition temperature: Not determined. Decomposition temperature: Not applicable Upper: not applicable Oxidising properties Not determined. Vapour pressure: Not determined. Vapour pressure: Not determined. Explosing properties Not determined. Not determined. Explosing properties Not determined. Not determined. Explore tensity Not determined. Not determined. Evaporation rate Not applicable. Not applicable.		thing.
Form:pastyColour:According to product specificationOdour:PungentOdour threshold:Not determined.pH-value:Not applicable.Change in condition Melting point/freezing point:undetermined Initial boiling point and boiling range:Flash point:Not applicableFlash point:Not determined.Auto-ignition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:Image and applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Not determined.Not determined.Vapour pressure:Not determined.Not determined.Not determined.Vapour densitysee technical datasheetVapour densityNot determined.Not applicable.Not applicable.Evaporation rateNot applicable.Not applicable.Not applicable.	9.1 Information on basic physical a	
Odour:PungentOdour threshold:Not determined.pH-value:Not applicable.Change in condition Melting point/freezing point:undetermined Initial boiling point and boiling range:Flash point:undetermined applicableFlash point:Not applicablePecomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:ImplicableUower:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable. Not applicable.Evaporation rateNot determined.	9.1 Information on basic physical a General Information	
Odour threshold:Not determined.pH-value:Not applicable.Change in condition Melting point/freezing point:undetermined undetermined initial boiling point and boiling range:Flash point:Not applicableFlash point:Not applicableDecomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:undetermined.Upper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Evaporation rateNot applicable.	9.1 Information on basic physical a General Information Appearance:	nd chemical properties
pH-value:Not applicable.pH-value:Not applicable.Change in condition Melting point/freezing point:undetermined Initial boiling point and boiling range:Initial boiling point and boiling range:Not applicableFlash point:Not applicablePlash point:Not applicableDecomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:Imper:Lower:not applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable. Not applicable.Not determined.Not applicable. Not applicable.	9.1 Information on basic physical a General Information Appearance: Form: Colour:	nd chemical properties pasty According to product specification
Change in condition Melting point/freezing point:undetermined undetermined pointial boiling point and boiling range:Flash point:Not applicableFlash point:Not applicableDecomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:Image: Not applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not applicable.Not applicable.Not determined.Not determined.	9.1 Information on basic physical a General Information Appearance: Form: Colour: Odour:	nd chemical properties pasty According to product specification Pungent
Melting point/freezing point:undeterminedInitial boiling point and boiling range:Not applicableFlash point:Not applicableDecomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:ont applicableUpper:not applicableOxidising propertiesNot determined.Oxidising propertiesNot determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not applicable.Not applicable.Not determined.Not determined.	9.1 Information on basic physical a General Information Appearance: Form: Colour: Odour: Odour threshold:	nd chemical properties pasty According to product specification Pungent Not determined.
Initial boiling point and boiling range: Not applicableFlash point:Not applicableDecomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:not applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not applicable.Not applicable.Not determined.Not determined.	9.1 Information on basic physical a General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value:	nd chemical properties pasty According to product specification Pungent Not determined.
Flash point:Not applicableDecomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:Image: Composition present an explosion hazard.Lower:not applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not applicable.Not applicable.Not applicable.Not applicable.	9.1 Information on basic physical a General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable.
Decomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:not applicableLower:not applicableUpper:Not determined.Oxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.	9.1 Information on basic physical a General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined
Auto-ignition temperature:Product is not selfigniting.Auto-ignition temperature:Product does not present an explosion hazard.Explosive properties:Product does not present an explosion hazard.Explosion limits:Image: Complex and the plicableLower:not applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not determined.Not applicable.	9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable
Explosive properties:Product does not present an explosion hazard.Explosion limits:not applicableLower:not applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not determined.	9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable
Explosion limits:Lower:not applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not determined.Not applicable.Not determined.Not applicable.Not applicable.Not applicable.	9.1 Information on basic physical a General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Decomposition temperature:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined.
Lower:not applicableUpper:not applicableOxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not determined.	9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Decomposition temperature: Auto-ignition temperature:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting.
Oxidising propertiesNot determined.Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not determined.	9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Decomposition temperature: Auto-ignition temperature: Explosive properties:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting.
Vapour pressure:Not determined.Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not determined.	9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting. Product does not present an explosion hazard. not applicable
Density:see technical datasheetVapour densityNot determined.Evaporation rateNot applicable.Not determined.Not applicable.Not determined.Not determined.	9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting. Product does not present an explosion hazard. not applicable not applicable
Vapour densityNot determined.Not applicable.Evaporation rateNot applicable.Not determined.	9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Oxidising properties	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting. Product does not present an explosion hazard. not applicable not applicable Not determined.
Evaporation rate Not applicable. Not applicable. Not determined.	9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Oxidising properties Vapour pressure:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting. Product does not present an explosion hazard. not applicable not applicable Not determined. Not determined. Not determined.
Evaporation rate Not applicable. Not determined.	9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosive properties: Explosion limits: Lower: Upper: Oxidising properties Vapour pressure: Density:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting. Product does not present an explosion hazard. not applicable not applicable Not determined. Not determined. Not determined. Not determined. Not determined. See technical datasheet
	9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ran Flash point: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosive properties: Explosion limits: Lower: Upper: Oxidising properties Vapour pressure: Density:	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting. Product does not present an explosion hazard. not applicable not applicable Not determined. Not determined. Not determined. See technical datasheet Not determined.
	9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosive properties: Explosion limits: Lower: Upper: Oxidising properties Vapour pressure: Density: Vapour density	nd chemical properties pasty According to product specification Pungent Not determined. Not applicable. undetermined nge: Not applicable Not applicable Not determined. Product is not selfigniting. Product does not present an explosion hazard. not applicable not applicable Not determined. Not determined. See technical datasheet Not determined. See technical datasheet Not determined. Not applicable. Not applicable.

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

Printing date 04.02.2020)
--------------------------	---

Version 3

Revision: 04.02.2020

Trade name: OTTOSEAL S 27

· Solubility in / Miscibility with	
Water:	Insoluble
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	Not determined.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications. Avoid strong heating.

• **10.6 Hazardous decomposition products:** Tests on representative products have shown that above temperatures of 150° C small quantities of formaldehyde are split off. see item 5.2

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- <u>LD/LC50 values relevant for classification:</u>

17689-77-9 ethyltriacetoxysilane

Oral LD50 1,460 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation

not irritating Source: ECHA

Test in accordance with: OECD Guideline 404 (rabbit).

- · Serious eye damage/irritation
- not irritating

Source: ECHA

Test in accordance with: OECD Guideline 405 (rabbit).

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

• Other information (about experimental toxicology):

In curing the material splits off acetic acid as damp. This may cause irritating effects to skin, eyes or respiratory system.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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 Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.2 Persistence and degradability
- · Other information: Product is not biodegradable.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 5)

(Contd. of page 3)

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

Printing date 04.02.2020

Version 3

Revision: 04.02.2020

Trade name: OTTOSEAL S 27

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Observe local by-laws.

Already cured material can be disposed of with the domestic or commercial waste. Unconsumed material (fluid, paste-like) is to dispose of as hazardous waste.

- · Uncleaned packaging:
- Recommendation:
- Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA · 14.2 UN proper shipping name	Void
· ADR, ADN, IMDG, IATA · 14.3 Transport hazard class(es)	Void
· ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	
· ADR, IMDG, IATA	Void
 14.5 Environmental hazards: 	
· Marine pollutant:	No
 14.6 Special precautions for user 	Not applicable.
 14.7 Transport in bulk according to Annex 	
of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Details of international registration status: Listed on or in accordance with the following inventories: REACH - Europe listed AICS - Australia listed DSL- Canada listed IECSC - China listed ENCS - Japan not listed NZIoC - New Zealand listed PICCS - Philippines listed ECL - Korea listed TSCA - USA listed

(Contd. of page 4)

(Contd. on page 6)

GB

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

Version 3

Revision: 04.02.2020

Trade name: OTTOSEAL S 27

Printing date 04.02.2020

(Contd.	of page 5)
• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried o	out.
SECTION 16: Other information	
This information is based on our present knowledge. However, this shall not constitute a gua for any specific product features and shall not establish a legally valid contractual relationshi	
[·] Relevant phrases	
H302 Harmful if swallowed.	
H314 Causes severe skin burns and eye damage.	
H318 Causes serious eye damage.	
• Department issuing SDS: Tel.: 0049- (0)8684- 908- 641	
Contact: Tel.: 0049- (0)8684- 908- 641 (-460)	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulati	ions
Concerning the International Transport of Dangerous Goods by Rail)	
ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concern	nina the
International Carriage of Dangerous Goods by Road)	ing the
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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
Skin Corr. 1B: Skin corrosion/irritation – Category 1B	
Skin Corr. 1C: Skin corrosion/irritation – Category 1C	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
* * Data compared to the previous version altered.	