



**SECTION 3: Composition / information on ingredients**

**3.2. Mixtures**

CAS #	EINECS # / EC #	Chemical name	Percentage % (wt/wt)	Classifications
				EC 1272/2008
22984-54-9	245-366-4	Methyl-O,O',O"-butan-2-on-trioximossilane	<4%	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319
556-67-2	209-136-7	Octamethylcyclotetrasiloxane	<1.1%	Flam. Liq. 3; H226 Aquatic Chronic 4; H413 Repr. 2; H361f
34206-40-1	251-882-0	Alkyl ketoximino silane	<1%	Flam. Sol. 1; H228 Skin Sens. 1B; H317 Eye Irrit. 2 ; H319 STOT RE 2 ; H373
1760-24-3	217-164-6	N-(3-(trimethoxysilyl)propyl)ethylenediamine	<1%	Skin Sens. 1B ; H317 Eye Dam. 1; H318 Acute Tox. 4; H332 STOT RE 2 ; H373

Full text of H-statements: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation**

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

**Skin**

Remove contaminated clothing. If on skin, wash off immediately with soap and plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

**Eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Fire fighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**

No information available.

**5.2. Special hazards arising from the**

No information available.

substance or mixture

**5.3. Advice for fire fighters**

Use water spray or fog for cooling exposed containers. Fire-fighters must wear approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing. See SDS Section 8 (Exposure Controls/Personal Protection).

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Evacuate unnecessary personnel. Avoid breathing vapor, mist, or spray. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment (PPE) as detailed in Section 8.

**6.2. Environmental precautions**

Do not discharge into drains, sewer system, ground water, soil and plants.

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

Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose in accordance with regulations.

**6.4. Reference to other sections**

Concerning personal protective equipment to use, see section 8. Disposal: see section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Use with adequate ventilation. Avoid exposure to flame, sparks and heat. Wear protective clothing to avoid contact with skin and eyes. Do not smoke, eat or drink during handling of this product. Wash hands after handling. Apply good hygienic practices.

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

Keep containers tightly closed in a dry, cool and well-ventilated place.

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

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: Exposure controls / personal protection**

**8.1. Control parameters**

8.1.1 Ingredient Comments: WEL-Workplace Exposure Limits

	Component(s)	Type	Value	Standard
1	Methanol (CAS#67-56-1)	TWA	266 mg/m <sup>3</sup>	EH40-WEL
		STEL	333 mg/m <sup>3</sup>	

**8.2. Exposure controls**

**Engineering measures**  
**Respiratory equipment**

Ensure adequate ventilation.  
Use a approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Hand protection**

Wear suitable gloves.

**Eye protection**

Prevent contact with eyes. Wear safety glasses or goggles, if required.

**Other protection**

No information available.

**Hygiene measures**

When using does not eat, drink or smoke. Wash hands before breaks and at the end of work.

## SECTION 9: Physical and chemical properties

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

<b>Appearance:</b>	White
<b>Colour:</b>	No information available.
<b>Physical state:</b>	No information available.
<b>Odour:</b>	No information available.
<b>Odour threshold:</b>	No information available.
<b>pH:</b>	No information available.
<b>Melting/freezing point</b>	No information available.
<b>Initial boiling point &amp; boiling range:</b>	No information available.
<b>Flash point:</b>	No information available.
<b>Evaporation rate:</b>	No information available.
<b>Flammability (solid, gas):</b>	No information available.
<b>Upper/lower flammability or explosive limits:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Vapour density:</b>	No information available.
<b>Relative density:</b>	No information available.
<b>Density:</b>	No information available.
<b>Solubility(ies):</b>	No information available.
<b>Partition coefficient: n-octanol/water</b>	No information available.
<b>Auto-ignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosive properties:</b>	No information available.
<b>Oxidising properties:</b>	No information available.
<b>9.2. Other information</b>	No information available.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	No specific reactivity hazards associated with this product.
<b>10.2. Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3. Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>10.4. Conditions to avoid</b>	None under recommended storage and handling condition.
<b>10.5. Incompatible materials</b>	No information available.
<b>10.6. Hazardous decomposition products</b>	No dangerous decomposition products known.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	No information available.
<b>Inhalation</b>	No information available.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	No information available.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	No information available.
<b>Delayed and immediate effects and also chronic effects from short- and long-term</b>	No information available.

exposure

Numerical measures of toxicity

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Octamethylcyclotetrasiloxane (CAS# 556-67-2)	1540 mg/kg (rat)	759 mg/kg (rabbit)	36 mg/l (rat) 4 h

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

<b>Ecotoxicity</b>	
<b>Numerical measures of toxicity</b>	No data available.
<b>Persistence and degradability</b>	There are no data on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	Not available.

**SECTION 13: Disposal considerations**

<b>13.1. Waste treatment methods</b>	Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.
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**SECTION 14: Transport information**

<b>14.1. UN number</b>			
ADR/RID: Non-Regulated Material	IMDG: Non-Regulated Material	ICAO/IATA: Non-Regulated Material	
<b>14.2. Proper shipping name</b>			
ADR/RID: Non-Regulated Material	IMDG: Non-Regulated Material	ICAO/IATA: Non-Regulated Material	
<b>14.3. Transport hazard class(es)</b>			
ADR/RID: Non-Regulated Material	IMDG: Non-Regulated Material	ICAO/IATA: Non-Regulated Material	
<b>14.4. Packing group</b>			
ADR/RID: Non-Regulated Material	IMDG: Non-Regulated Material	ICAO/IATA: Non-Regulated Material	
<b>14.5. Environmental hazards</b>			
ADR/RID: No	IMDG Marine pollutant: No	ICAO/IATA: No	

- 14.6. **Special precautions for user** Not applicable.
- 14.7. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Listed substance(s)**

Octamethylcyclotetrasiloxane (CAS# 556-67-2)

Ethylenediamine (CAS# 107-15-3)

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

None of the components in this product is listed.

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

**Listed substance(s)**

Octamethylcyclotetrasiloxane (CAS# 556-67-2)

Methanol (CAS# 67-56-1)

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

**Listed substance(s)**

Methanol (CAS# 67-56-1)

**National regulation (Germany)**

Water hazard class (WGK)

Water hazard class 2: Obviously hazardous to water.

With respect to REACH, all ingredients of this mixture are below the 1-ton exemption limit, are exempt based on a reimport exemption, are exempt because of a mineral exemption, or are REACH registered.

**15.2. Chemical safety assessment:**

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision Date</b>	September 3, 2019
<b>Revision</b>	-
<b>Abbreviations and acronyms</b>	
Flam. Liq. 3	Flammable liquid - Category 3
Flam. Sol. 1	Flammable solid - Category 1
Acute Tox. 4 (Inhalation)	Acute Toxicity - Inhalation - Category 4
Skin Irrit.2	Skin corrosion/irritation- Category 2
Eye Irrit. 2	Serious eye damage/eye irritation - Category 2
Eye Dam. 1	Serious eye damage/eye irritation - Category 1
STOT RE 2	Specific target organ toxicity, Repeated exposure - Category 2
Skin Sens. 1	Skin Sensitisation - Category 1B
Repr. 2	Reproductive toxicity - Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment – long-term (chronic) aquatic hazard- Category 4
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by

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	Road.
IMDG	International Maritime Code for Dangerous Goods.
ICAO	International Civil Aviation Organisation.
IATA	International Air Transport Association.
GHS	Globally Harmonised System of Classification and Labelling of Chemicals.
CAS	Chemical Abstracts Service (division of the American Chemical Society).
EINECS	European Inventory of Existing Commercial Substances.
TWA	Time-Weighted Average.
STEL	Short-term Exposure Limit.
PBT	Persistent, Bio accumulative and Toxic.
vPvB	Very Persistent and very Bio accumulative.
LD <sub>50</sub>	Lethal Dose, 50%.
LC <sub>50</sub>	Lethal Concentration, 50%.
NOEC	No observed effect concentration.
H226	Flammable liquid and vapour.
H228	Flammable solid
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361f	Suspected of damaging fertility.
H373	Causes damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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