

## Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### MS-POLYMER MARINE

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** MS-POLYMER MARINE
- Other means of identification:**  
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses (Consumer use): Flexible sealant for wood decks in shipbuilding  
Relevant uses (Professional users): Flexible sealant for wood decks in shipbuilding  
Relevant uses (Industrial user): Flexible sealant for wood decks in shipbuilding  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
DUROSTICK SA  
PATIMA KOROREMI  
193 00 ASPROPIRGOS, ATTICA - GREECE  
Phone: +30 211 60 03 500-599 - Fax: +30 210 55 99 612  
koutsibelis@durostick.gr  
www.durostick.gr
- 1.4 Emergency telephone number:** +30 210 77 93 777


#### SECTION 2: HAZARDS IDENTIFICATION \*\*

- 2.1 Classification of the substance or mixture:**  
This product contains less than 1% of crystalline silica breathable fraction, so it does not require classification based on the provisions of Regulation (EU) 1272/2008 of the European Parliament and of the Council, of December 16, 2008, on classification, labeling and packaging of substances and mixtures, and amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006.  
**CLP Regulation (EC) No 1272/2008:**  
The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
None
- 2.3 Other hazards:**  
Product does not meet PBT/vPvB criteria  
Endocrine-disrupting properties: The product does not meet the criteria.

\*\* Changes with regards to the previous version

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

- 3.1 Substance:**  
Not relevant
- 3.2 Mixture:**  
**Chemical description:** Mixture  
**Components:**  
In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: Not relevant EC: 484-460-1 Index: Not relevant REACH: 01-2120004323-76-XXXX	<b>O,O',O''-(methylsilyldiyl)trioxime 2-pentanone<sup>(1)</sup></b> Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	Self-classified  <b>1 - &lt;10 %</b>

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

<sup>(2)</sup> Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

\*\* Changes with regards to the previous version









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#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\* (continued)

Identification	Chemical name/Classification		Concentration
CAS: 58190-62-8 EC: 700-810-0 Index: Not relevant REACH: 01-2120006148-66-XXXX	<b>2-Pentanone, O,O',O''-(ethenylsilyldiene)trioxime<sup>(1)</sup></b> Self-classified		<b>1 - &lt;10 %</b>
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning 	
CAS: 919-30-2 EC: 213-048-4 Index: 612-108-00-0 REACH: 01-2119480479-24-XXXX	<b>3-aminopropyltriethoxysilane<sup>(2)</sup></b> ATP CLP00		<b>0,1 - &lt;1 %</b>
	Regulation 1272/2008	Acute Tox. 4: H302; Skin Corr. 1B: H314 - Danger  	
CAS: 870-08-6 EC: 212-791-1 Index: Not relevant REACH: 01-2119971268-27-XXXX	<b>dioctyltin oxide<sup>(2)</sup></b> Self-classified		<b>0,1 - &lt;1 %</b>
	Regulation 1272/2008	STOT SE 2: H371 - Warning 	
CAS: 623-40-5 EC: 484-470-6 Index: Not relevant REACH: 01-0000020248-72-XXXX	<b>2-Pentanone oxime<sup>(2)</sup></b> Self-classified		<b>0,1 - &lt;1 %</b>
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Irrit. 2: H319 - Warning 	
CAS: 108-88-3 EC: 203-625-9 Index: 601-021-00-3 REACH: 01-2119471310-51-XXXX	<b>Toluene<sup>(2)</sup></b> Self-classified		<b>&lt;0,1 %</b>
	Regulation 1272/2008	Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361fd; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger   	

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

<sup>(2)</sup> Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
O,O',O''-(methylsilyldiene)trioxime 2-pentanone CAS: Not relevant EC: 484-460-1	LD50 oral	1234 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation dust	Not relevant	
2-Pentanone, O,O',O''-(ethenylsilyldiene)trioxime CAS: 58190-62-8 EC: 700-810-0	LD50 oral	1500 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation dust	Not relevant	
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	LD50 oral	1491 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation dust	Not relevant	
2-Pentanone oxime CAS: 623-40-5 EC: 484-470-6	LD50 oral	1133 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation dust	Not relevant	

\*\* Changes with regards to the previous version

#### SECTION 4: FIRST AID MEASURES

##### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

##### By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

##### By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

##### By eye contact:

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**MS-POLYMER MARINE****SECTION 4: FIRST AID MEASURES (continued)**

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media:****Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

Non-applicable

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

It is recommended to avoid environmental spillage of both the product and its container.

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

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling:**

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#### SECTION 7: HANDLING AND STORAGE (continued)

**A.- General precautions for safe use**

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

**B.- Technical recommendations for the prevention of fires and explosions**

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

**C.- Technical recommendations on general occupational hygiene**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

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

**A.- Specific storage requirements**

Minimum Temp.: 5 °C  
 Maximum Temp.: 30 °C  
 Maximum time: 12 Months

**B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
Toluene <sup>(1)</sup> CAS: 108-88-3 EC: 203-625-9	IOELV (8h)	50 ppm	192 mg/m <sup>3</sup>
	IOELV (STEL)	100 ppm	384 mg/m <sup>3</sup>

<sup>(1)</sup> Skin

Nuisance dust: Inhalable dust 10 mg/m<sup>3</sup> // Respirable dust 4 mg/m<sup>3</sup>

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
O,O',O''-(methylsilyldiylidene)trioxime 2-pentanone CAS: Not relevant EC: 484-460-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,065 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,229 mg/m <sup>3</sup>	Not relevant
2-Pentanone, O,O',O''-(ethenylsilyldiylidene)trioxime CAS: 58190-62-8 EC: 700-810-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,065 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,229 mg/m <sup>3</sup>	Not relevant
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	14 mg/m <sup>3</sup>	Not relevant
2-Pentanone oxime CAS: 623-40-5 EC: 484-470-6	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0,097 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	51,54 mg/m <sup>3</sup>	Not relevant

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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Toluene	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 108-88-3	Dermal	Not relevant	Not relevant	384 mg/kg	Not relevant
EC: 203-625-9	Inhalation	384 mg/m <sup>3</sup>	384 mg/m <sup>3</sup>	192 mg/m <sup>3</sup>	192 mg/m <sup>3</sup>

#### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
O,O',O''-(methylsilyldiylidene)trioxime 2-pentanone CAS: Not relevant EC: 484-460-1	Oral	Not relevant	Not relevant	0,033 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,033 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,057 mg/m <sup>3</sup>	Not relevant
2-Pentanone, O,O',O''-(ethenylsilyldiylidene)trioxime CAS: 58190-62-8 EC: 700-810-0	Oral	Not relevant	Not relevant	0,033 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,033 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0,057 mg/m <sup>3</sup>	Not relevant
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	Oral	Not relevant	Not relevant	1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	3,5 mg/m <sup>3</sup>	Not relevant
dioctyltin oxide CAS: 870-08-6 EC: 212-791-1	Oral	Not relevant	Not relevant	0,002 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant
2-Pentanone oxime CAS: 623-40-5 EC: 484-470-6	Oral	Not relevant	Not relevant	0,042 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0,042 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	10,99 mg/m <sup>3</sup>	Not relevant
Toluene CAS: 108-88-3 EC: 203-625-9	Oral	Not relevant	Not relevant	8,13 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	226 mg/kg	Not relevant
	Inhalation	226 mg/m <sup>3</sup>	226 mg/m <sup>3</sup>	56,5 mg/m <sup>3</sup>	56,5 mg/m <sup>3</sup>

#### PNEC:

Identification				
O,O',O''-(methylsilyldiylidene)trioxime 2-pentanone CAS: Not relevant EC: 484-460-1	STP	2,15 mg/L	Fresh water	0,1 mg/L
	Soil	0,044 mg/kg	Marine water	0,01 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0,569 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,057 mg/kg
2-Pentanone, O,O',O''-(ethenylsilyldiylidene)trioxime CAS: 58190-62-8 EC: 700-810-0	STP	2,22 mg/L	Fresh water	0,103 mg/L
	Soil	0,046 mg/kg	Marine water	0,01 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	0,586 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,059 mg/kg
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	STP	1,3 mg/L	Fresh water	Not relevant
	Soil	Not relevant	Marine water	Not relevant
	Intermittent	Not relevant	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant
2-Pentanone oxime CAS: 623-40-5 EC: 484-470-6	STP	2 mg/L	Fresh water	0,088 mg/L
	Soil	0,049 mg/kg	Marine water	0,009 mg/L
	Intermittent	0,88 mg/L	Sediment (Fresh water)	0,501 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,05 mg/kg
Toluene CAS: 108-88-3 EC: 203-625-9	STP	13,61 mg/L	Fresh water	0,68 mg/L
	Soil	2,89 mg/kg	Marine water	0,68 mg/L
	Intermittent	0,68 mg/L	Sediment (Fresh water)	16,39 mg/kg
	Oral	Not relevant	Sediment (Marine water)	16,39 mg/kg

#### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection



If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

#### C.- Specific protection for the hands



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

#### D.- Eye and face protection



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

#### E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2022	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832-1:2019

#### F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

#### Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

#### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	1,33 % weight
V.O.C. density at 20 °C:	22,44 kg/m <sup>3</sup> (22,44 g/L)
Average carbon number:	14,98
Average molecular weight:	308,63 g/mol

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**MS-POLYMER MARINE****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

Physical state at 20 °C:	Liquid
Appearance:	Paste
Colour:	Black
Odour:	Not relevant *
Odour threshold:	Not relevant *

**Volatility:**

Boiling point at atmospheric pressure:	Not relevant *
Vapour pressure at 20 °C:	Not relevant *
Vapour pressure at 50 °C:	Not relevant *
Evaporation rate at 20 °C:	Not relevant *

**Product description:**

Density at 20 °C:	1360 kg/m <sup>3</sup>
Relative density at 20 °C:	1,36
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	>20,5 mm <sup>2</sup> /s
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

**Flammability:**

Flash Point:	Not relevant *
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	225 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *

**Explosive (Solid):**

Lower explosive limit:	Not relevant *
Upper explosive limit:	Not relevant *

**Particle characteristics:**

Median equivalent diameter:	Not relevant *
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**9.2 Other information:****Information with regard to physical hazard classes:**

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Aerosols-total percentage (by mass) of flammable components: Not relevant \*

##### Other safety characteristics:

Surface tension at 20 °C: Not relevant \*

Refraction index: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

#### SECTION 10: STABILITY AND REACTIVITY

##### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

##### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

##### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

##### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

##### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

##### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

#### SECTION 11: TOXICOLOGICAL INFORMATION \*\*

##### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

##### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

\*\* Changes with regards to the previous version

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#### SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

**D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: Carbon black (2B); Toluene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

**E- Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**F- Specific target organ toxicity (STOT) - single exposure:**

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

**G- Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**H- Aspiration hazard:**

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
O,O',O''-(methylsilyldiylidene)trioxime 2-pentanone CAS: Not relevant EC: 484-460-1	LD50 oral	1234 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
2-Pentanone, O,O',O''-(ethenylsilyldiylidene)trioxime CAS: 58190-62-8 EC: 700-810-0	LD50 oral	1500 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	LD50 oral	1491 mg/kg	Rat
	LD50 dermal	4000 mg/kg	Rabbit
	LC50 inhalation		
dioctyltin oxide CAS: 870-08-6 EC: 212-791-1	LD50 oral	2500 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
2-Pentanone oxime CAS: 623-40-5 EC: 484-470-6	LD50 oral	1133 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		
Toluene CAS: 108-88-3 EC: 203-625-9	LD50 oral	5580 mg/kg	Rat
	LD50 dermal	12124 mg/kg	Rat
	LC50 inhalation vapour	28,1 mg/L (4 h)	Rat

**11.2 Information on other hazards:**

**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

\*\* Changes with regards to the previous version

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#### SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

Not relevant

*\*\* Changes with regards to the previous version*

#### SECTION 12: ECOLOGICAL INFORMATION \*\*

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

##### 12.1 Toxicity:

###### Acute toxicity:

Identification	Concentration		Species	Genus
2-Pentanone, O,O',O''-(ethenylsilyldiyl)trioxime CAS: 58190-62-8 EC: 700-810-0	LC50	110 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	110 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	LC50	Not relevant		
	EC50	331 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	603 mg/L (72 h)	Scenedesmus subspicatus	Algae
2-Pentanone oxime CAS: 623-40-5 EC: 484-470-6	LC50	Not relevant		
	EC50	Not relevant		
	EC50	88 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Toluene CAS: 108-88-3 EC: 203-625-9	LC50	5,5 mg/L (96 h)	Oncorhynchus kisutch	Fish
	EC50	3,78 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
	EC50	Not relevant		

##### 12.2 Persistence and degradability:

###### Substance-specific information:

Identification	Degradability		Biodegradability	
2-Pentanone, O,O',O''-(ethenylsilyldiyl)trioxime CAS: 58190-62-8 EC: 700-810-0	BOD5	Not relevant	Concentration	12 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	1 %
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	54 %
dioctyltin oxide CAS: 870-08-6 EC: 212-791-1	BOD5	Not relevant	Concentration	23.7 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	1,9 %
Toluene CAS: 108-88-3 EC: 203-625-9	BOD5	2,5 g O2/g	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	100 %

##### 12.3 Bioaccumulative potential:

###### Substance-specific information:

Identification	Bioaccumulation potential	
2-Pentanone, O,O',O''-(ethenylsilyldiyl)trioxime CAS: 58190-62-8 EC: 700-810-0	BCF	69
	Pow Log	
	Potential	Moderate
3-aminopropyltriethoxysilane CAS: 919-30-2 EC: 213-048-4	BCF	1
	Pow Log	0.1
	Potential	Low
dioctyltin oxide CAS: 870-08-6 EC: 212-791-1	BCF	1
	Pow Log	9.6
	Potential	Low

*\*\* Changes with regards to the previous version*

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#### SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)

Identification	Bioaccumulation potential	
Toluene	BCF	90
CAS: 108-88-3	Pow Log	2.73
EC: 203-625-9	Potential	Moderate

#### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime CAS: 58190-62-8 EC: 700-810-0	Koc	20.9	Henry	Not relevant
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
dioctyltin oxide CAS: 870-08-6 EC: 212-791-1	Koc	155400	Henry	Not relevant
	Conclusion	Immobile	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
2-Pentanone oxime CAS: 623-40-5 EC: 484-470-6	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	6,9E-2 N/m (20 °C)	Moist soil	Not relevant
Toluene CAS: 108-88-3 EC: 203-625-9	Koc	178	Henry	672,8 Pa·m <sup>3</sup> /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	2,793E-2 N/m (25 °C)	Moist soil	Yes

#### 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

#### 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

#### 12.7 Other adverse effects:

Not described

\*\* Changes with regards to the previous version

#### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	Non-hazardous

#### Type of waste (Regulation (EU) No 1357/2014):

Not relevant

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

#### SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

#### SECTION 15: REGULATORY INFORMATION \*\*

\*\* Changes with regards to the previous version

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**MS-POLYMER MARINE****SECTION 15: REGULATORY INFORMATION \*\* (continued)****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: *dioctyltin oxide (870-08-6)*
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Seveso III:**

Not relevant

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Laboral exposure to respirable crystalline silica must be controlled in accordance with Directive (EU) 2022/431, of the European Parliament and of the Council, of March 9, 2022, amending Directive 2004/37/EC, relating to the protection of workers against risks related to exposure to carcinogens or mutagens during work.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

\*\* Changes with regards to the previous version

**SECTION 16: OTHER INFORMATION \*\*****Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
  - dioctyltin oxide (870-08-6)
  - Toluene (108-88-3)
  - O,O',O''-(methylsilyldiylidene)trioxime 2-pentanone
  - 2-Pentanone oxime (623-40-5)
  - 2-Pentanone, O,O',O''-(ethenylsilyldiylidene)trioxime (58190-62-8)

- Removed substances
  - Dibutyltin Dilaurate (77-58-7)
  - 2-butanone oxime (96-29-7)
  - Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime (22984-54-9)
  - Butan-2-one O,O',O''-(vinylsilyldiylidene)trioxime (2224-33-1)

Substances that contribute to the classification (SECTION 2):

- Removed substances
  - Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime (22984-54-9)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements
- Precautionary statements
- Supplementary information

REGULATORY INFORMATION (SECTION 15):

- Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....)

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

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#### SECTION 16: OTHER INFORMATION \*\* (continued)

Acute Tox. 4: H302 - Harmful if swallowed.  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  
Repr. 2: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.  
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.  
Skin Irrit. 2: H315 - Causes skin irritation.  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.  
STOT SE 2: H371 - May cause damage to organs (Oral).  
STOT SE 3: H336 - May cause drowsiness or dizziness.

#### **Classification procedure:**

Not relevant

#### **Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### **Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

#### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

*\*\* Changes with regards to the previous version*

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -