



## Marmox MSP360 (White) SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC)No. 1907/2006, Annex II Adhesive / Sealant Revision date 08-02-2022

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

#### 1.1. Product identifier

Marmox MSP360 Premium Adhesive & Sealant (White)  
Pure substance/mixture

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

Recommended use Adhesives and/or sealants  
Uses advised against - None known

#### 1.3. Details of the supplier of the safety data sheet

Marmox UK Ltd  
Caxton House, 101 – 103 Hopewell Drive,  
Chatham  
Kent  
ME5 7NP  
E-mail address: [sales@marmox.co.uk](mailto:sales@marmox.co.uk)

#### 1.4. Emergency telephone number

01634835290

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008  
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

EU Specific Hazard Statements  
EUH208 - Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, Trimethoxyvinylsilane. May produce an allergic reaction  
EUH210 - Safety data sheet available on request  
EUH212 – Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

#### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Titanium dioxide
EC No (EU Index No)	236-675-5
CAS No	13463-67-7
Weight %	0.1 - <1
Classification	[C]

Specific Concentration	REACH	Reg. number
Regulation (EC) No. 1272/2008 [CLP]	limit (SCL)	01-2119489379-17-XXXX
	-	

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.
Inhalation	Remove to fresh air. If symptoms persist, call a doctor. Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and water.
Ingestion	Call a doctor immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Small amounts of toxic methanol are released by hydrolysis.

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

None known.

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

Note to doctors	Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.
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## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.  
Unsuitable extinguishing media Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical thermal decomposition can lead to release of irritating gases and vapours. Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Silicon dioxide.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters. Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams. Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.  
General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep away from food, drink and animal feeding stuffs.  
Recommended storage temperature  
Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Adhesives and/or sealants.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet. Other information Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure Limits This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

Chemical name	European Union	United Kingdom	
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	
Chemical name	European Union	Ireland	United Kingdom
Titanium dioxide (13463-67-7)			
Type factor	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Worker Long term Local health effects Titanium dioxide (13463-67-7)	Inhalation	10 mg/m <sup>3</sup>	
Type factor	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term- Systemic health effects Titanium dioxide (13463-67-7)	Oral	700 mg/kg bw/d	
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Marine water	0.0184 mg/l		
Freshwater sediment	1000 mg/kg		
Freshwater	0.184 mg/l		
Marine sediment	100 mg/kg		
Soil	100 mg/kg		
Microorganisms in sewage treatment	100 mg/l		
Freshwater - intermittent	0.193 mg/l		

### 8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

Hand protection Wear suitable gloves. Recommended Use: Neoprene™. Nitrile rubber. Butyl rubber. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480

min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374

Skin and body protection None under normal use conditions.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Ensure adequate ventilation, especially in confined areas.

Recommended filter type: Organic gases and vapours filter conforming to EN 14387. White. Brown.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	Solid	
Appearance	Paste	
Colour	White	
Odour	Characteristic.	
Odour threshold	No information available	
Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	Not applicable for liquids.	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	> 60 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH . pH (as aqueous solution)	No data available	None known
Kinematic viscosity > 21 mm <sup>2</sup> /s		
Dynamic viscosity	No data available	
Water solubility	No data available. Product cures with moisture	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk Density	No data available	
Density 1.53 g/cm <sup>3</sup> Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	
Sensitivity to mechanical impact	None.	
Sensitivity to static discharge	None.	

### 9.2. Other information

Solid content (%)	No information available
VOC content	No data available

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

## SECTION 10: Stability and reactivity

10.1. Reactivity	Product cures with moisture.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	None under normal processing.
10.4. Conditions to avoid	Product cures with moisture. Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.
10.5. Incompatible materials	None known based on information supplied.
10.6. Hazardous decomposition products	None under normal use conditions. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

## SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008  
Information on likely routes of exposure

### Product Information

Inhalation	Based on available data, the classification criteria are not met.	
Eye contact	Based on available data, the classification criteria are not met.	
Skin contact	Based on available data, the classification criteria are not met. May cause sensitisation in susceptible persons.	
Ingestion	Based on available data, the classification criteria are not met. Symptoms related to the physical, chemical and toxicological characteristics	
Symptoms	No information available.	
	Acute toxicity	
	Numerical measures of toxicity	
	The following values are calculated based on chapter 3.1 of the GHS document	
	ATEmix (inhalation-vapour) 876.6455 mg/l	
	Component Information	
	Chemical name	Oral LD50
	Inhalation LC50	Dermal LD50
	Titanium dioxide	>10000 mg/kg (Rattus)
		LD50 > 5000 mg/Kg = 5.09 mg/L (Rattus) 4 h
	N-(3-(trimethoxysilyl)propyl)ethylenediamine (Aerosol)	=2295 mg/kg (Rattus) >2000 mg/Kg (Rattus) LC50 4H
		1.5 - 2.44mg/L air

Delayed and immediate effects as well as chronic effects from short and long-term exposure  
Skin corrosion/irritation Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion Titanium dioxide (13463-67-7)	Rabbit	Dermal			Non-irritant

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion Respiratory or skin sensitisation OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No classification is proposed, based on conclusive negative data. May cause sensitisation in susceptible persons.	Rabbit	Eye			Non-irritant

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation observed	Guinea pig	Dermal	No sensitisation responses were observed
OECD Test No. 406: Skin Sensitisation observed	Guinea pig	Dermal	No sensitisation responses were observed

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Not a skin sensitiser
OECD Test No. 429: Skin Sensitisation: Local Lymph Node			

Assay OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Mouse	Dermal	Not a skin sensitiser
Toxicity Screening Test	Rat		Not Classifiable

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.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

#### 11.2.2. Other information

Other adverse effects No information available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Titanium dioxide						
13463-67-7	LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203	-	-	-		

#### 12.3. Bioaccumulative potential

##### Bioaccumulation

##### Component Information

Chemical name	Partition coefficient
Diisononyl phthalate	9.7
Trimethoxyvinylsilane	1.1
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3

#### 12.4. Mobility in soil

No information available.

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

##### Chemical name

Titanium dioxide

PBT and vPvB assessment

PBT and vPvB assessment

The substance is not PBT / vPvB PBT assessment does not apply

#### 12.6. Endocrine disrupting properties

##### Endocrine disrupting properties

No information available.

#### 12.7. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Waste from residues/unused products

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging Handle contaminated packages in the same way as the product itself.

European Waste Catalogue 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Other information Waste codes should be assigned by the user based on the application for which the product was used.

### SECTION 14: Transport information



Land transport (ADR/RID)

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

**Section 15: REGULATORY INFORMATION**

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Regulation (EU) No. 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Directive 2010/75/EU (VOC): 0%

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

**SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet  
Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H371 - May cause damage to organs

#### Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data No information available

Prepared By Product Safety & Regulatory Affairs

Indication of changes Revision date 03-Oct-2022

Revision note Not applicable.

Training Advice When working with hazardous materials, regular training of operators is required by law  
Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer



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