Safety Data Sheet

According to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date: 11/07/2023

S-MTSEAL ZWART

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Name: S-MTSEAL ZWART
Code: D600000

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

Recommended use: Sealant.
Uses advised against: Not to be used in production of toys or childcare articles.

1.3 Details of the supplier of the safety data sheet

Company:
MULTITASK INDUSTRIES
KARNEMELKSTRAAT 12
9060 ZELZATE / BELGIË
TEL: +32 (0)9 282 43 61
FAX: +32 (0)9 337 04 96
HOMEPAGE: www.multitaskindustries.be
EMAIL: info@multitaskindustries.be

Information department:
Technical information: info@multitaskindustries.be

1.4 Emergency telephone number:

Poison control centre (Brussels): +32 (0)70 245 245.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Not classified.

2.2 Label elements

Not classified.

Signal word: None.

Hazard statements: Not classified.

EU Specific Hazard Statements:

EUH208	Contains Dioctyltinbis(acetylacetonate). May produce an allergic reaction.
EUH210	Safety data sheet available on request.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.
PBT and vPvB: 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).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable.

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Trimethoxyvinylsilane	220-449-8	2768-02-7	1 - <5	Acute Tox. 4, (H332); Flam. Liq. 3, (H226)		01-2119513215-52-XXXX
Titanium dioxide	236-675-5	13463-67-7	1 - <2,5	Carc. 2 (H351i)		01-2119489379-17-XXXX
Dioctyltinbis(acetylacetonate)	483-270-6	54068-28-9	0,1 <1	STOT SE 2 (H371); Skin Sens. 1 (H317)	Skin Sens. 1: C>=5%	01-0000020199-67-XXXX

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

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

4. FIRST AID MEASURES

4.1 Description of first aid measures
General advice: If medical advice is needed, have product container or label at hand.
First aid after inhalation: Remove to fresh air. If symptoms persist, call a doctor.
First aid after 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. Consult an ophthalmologist.
First aid after skin contact: Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
First aid after ingestion: Call a doctor immediately. If swallowed, rinse mouth with water (only if the person is conscious). Drink 1 or 2 glasses of water. 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.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media: Water spray, carbon dioxide (CO2), 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 dioxide (CO2). Carbon monoxide.

5.3 Advice for firefighters
Special protective equipment for fire-fighters: Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.
Other information: Ventilate the area. Prevent further leakage or spillage if safe to do so.
For emergency responders: Use personal protection recommended in Section 8.

6.2 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: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Methods for cleaning up: Take up mechanically, placing in appropriate containers for disposal.

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Advice on safe handling: Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
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 at temperatures between 5 and 35 °C. Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)
Specific use(s): Sealant.
Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.
Other information: Observe technical data sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits: Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon Curing.

Methyl alcohol (67-56-1)	
EU	TWA: 200 ppm
EU	TWA: 260 mg/m³ *

Derived No Effect Level (DNEL): No information available.

Derived No Effect Level (DNEL)	
Titanium dioxide (13463-67-7)	
DNEL (Workers)	
Long term – local health effects, inhalation	10 mg/m³
DNEL (Consumer)	
Long term – systemic health effects, oral	700 mg/kg bw/d

Trimethoxyvinylsilane (2768-02-7)	
DNEL (Workers)	
Long term – systemic health effects, dermal	3,9 mg/kg bw/d
Long term – systemic health effects, inhalation	27,6 mg/m³
DNEL (Consumer)	
Long term – systemic health effects, inhalation	18,9 mg/m³
Long term – systemic health effects, dermal	7,8 mg/kg bw/d
Long term – systemic health effects, oral	0,3 mg/kg bw/d

Dioctyltin bis(acetylacetonate) (54068-28-9)	
DNEL (Workers)	
Long term – systemic health effects, dermal	0,07 mg/kg bw/d
Short term – systemic health effects, inhalation	84 mg/m³
Long term – systemic health effects, inhalation	84 mg/m³
Long term/short term – local health effects, inhalation	0,091 mg/m³

Predicted No Effect Concentration (PNEC): No information available.

Predicted No Effect Concentration (PNEC)	
Titanium dioxide (13463-67-7)	
PNEC (Environment)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
PNEC (Water)	
PNEC aqua (Marine water)	0,0184 mg/l
PNEC aqua (Freshwater)	0,184 mg/l

PNEC aqua (Freshwater, intermittent)	0,193 mg/l
PNEC (Sediments)	
PNEC sediment (freshwater)	1000 mg/kg
PNEC sediment (marine water)	100 mg/kg
PNEC (Soil)	
PNEC (Soil)	100 mg/kg
PNEC (STP)	
PNEC (microorganisms in sewage treatment)	100 mg/l

Trimethoxyvinylsilane (2768-02-7)	
PNEC (Environment)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
PNEC (Water)	
PNEC aqua (Marine water)	0,034 mg/l
PNEC aqua (Freshwater)	0,34 mg/l
PNEC (STP)	
PNEC (microorganisms in sewage treatment)	110 mg/l

Dioctyltinbis(acetylacetonate) (54068-28-9)	
PNEC (Environment)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
PNEC (Water)	
PNEC aqua (Marine water)	2,6 µg/l
PNEC aqua (Freshwater)	26 µg/l
PNEC aqua (Freshwater, intermittent)	260 µg/l
PNEC (Sediments)	
PNEC sediment (freshwater)	0,155 mg/kg dry weight
PNEC sediment (marine water)	0,0155 mg/kg dry weight
PNEC (Soil)	
PNEC (Soil)	0,0158 mg/kg dry weight
PNEC (STP)	
PNEC (Sewage treatment plant)	1 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: Nitrile rubber. Butyl rubber. Neoprene™. Glove thickness > 0.7mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time for the mentioned glove material is in general greater than 480 min. 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. During spraying wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A/P2 filter or better.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid.
Appearance:	Paste.
Colour:	Black.
Odour:	Characteristic.
Odour threshold:	No information available.
pH:	No data available.
Melting point/freezing point:	No data available.
Boiling point/boiling range:	No data available.
Flash point:	> 100 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	Not applicable for liquids.
Flammability Limit in Air:	
Upper flammability or explosive limits:	No data available.
Lower flammability or explosive limits:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Relative density:	1.44
Water solubility:	Insoluble in water. Product cures with moisture.
Solubility(ies):	No data available.
Partition coefficient:	No data available.
Autoignition temperature:	No data available.
Decomposition temperature:	No data available.
Kinematic viscosity (at 40 °C):	>21 mm²/s
Dynamic viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

Solid content (%):	No information available.
VOC Content (%):	Approx. 51 g/L / 3.55 %
Density:	1.44 g/cm³

10. STABILITY AND REACTIVITY

10.1 Reactivity

Product cures with moisture.

10.2 Chemical stability

Stability: Stable under normal conditions.
Explosion data:
Sensitivity to mechanical impact: None.
Sensitivity to static discharge: None.

10.3 Possibility of hazardous reactions
None under normal processing.

10.4 Conditions to avoid
Protect from moisture.

10.5 Incompatible materials
None known based on information supplied.

10.6 Hazardous decomposition products
Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
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.
Ingestion: Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics
Symptoms: None known.

Numerical measures of toxicity
Acute toxicity:
The following values are calculated based on chapter 3.1 of the GHS document.
ATE-mix (dermal): 4217.50 mg/kg
ATE-mix (inhalation-vapour): 473.27 mg/l

Component information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide 13463-67-7	>10000 mg/kg (Rattus)	LD50 > 10000 mg/Kg	>5 mg/l
Trimethoxyvinylsilane 2768-02-7	LD50 = 7120 -7236 mg/kg (Rattus) OECD 401	= 3360 µL/kg (Oryctolagus cuniculus)	LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403
Dioctyltinbis(acetylacetonate) 54068-28-9	LD50 = 2500 mg/kg (Rat)	LD50 >2000 mg/kg (Rattus)	

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.

Component Information:

Trimethoxyvinylsilane (2768-02-7)					
Method	**Species**	**Exposure route**	**Effective dose**	**Exposure time**	**Results**
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Component Information:

Trimethoxyvinylsilane (2768-02-7)					
Method	**Species**	**Exposure route**	**Effective dose**	**Exposure time**	**Results**
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye		24 hours	Non-irritant.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Component Information:

Trimethoxyvinylsilane (2768-02-7)			
Method	**Species**	**Exposure route**	**Results**
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	Not a skin sensitizer.

Dioctyltinbis(acetylacetonate) (54068-28-9)			
Method	**Species**	**Exposure route**	**Results**
OECD Test No. 429: Skin Sensitization: Local Lymph Node Assay		Dermal	>5% sensitizing

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Component Information:

Trimethoxyvinylsilane (2768-02-7)		
Method	**Species**	**Results**
OECD Test No. 471: Bacterial Reverse Mutation Test	In vitro	Not mutagenic.

Carcinogenicity: As Titanium dioxide (13463-67-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

Chemical name	European Union
Titanium dioxide 13463-67-7	Carc. 2

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component Information:

Titanium dioxide (13463-67-7)		
Method	**Species**	**Results**
Oral	Rat	Not carcinogenic.
Inhalation Xu et al (2010), carcinogenic activity of nanoscale TiO2 administered by an intrapulmonary spraying (IPS) - initiation-promotion protocol in rat lung	Rat	Carcinogenic

Reproductive toxicity: Based on available data, the classification criteria are not met.

Component Information:

Trimethoxyvinylsilane (2768-02-7)		
Method	**Species**	**Results**
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental 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.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Ecotoxicity:

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Titanium dioxide 13463-67-7	LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203	-	-	-
Trimethoxyvinylsilane 2768-02-7	EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3	LC50 (96h) =191 mg/l (Oncorhynchus mykiss)	-	EC50(48hr) 168.7 mg/l (Daphnia magna)
Dioctyltinbis(acetylacetonate) 54068-28-9	-	LC50 (96h) =86 mg/L (Static)	-	EC50 (48h) = 58.6 mg/L (Daphnia magna)

12.2 Persistence and degradability
No information available.

Component information:

Trimethoxyvinylsilane (2768-02-7)			
Method	**Exposure time**	**Value**	**Results**
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	BOD	51% Not readily biodegradable

12.3 Bioaccumulative potential
There are no data for this product.

Component information:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Trimethoxyvinylsilane 2768-02-7	1.1	-

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment
The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Dioctyltinbis(acetylacetonate) 54068-28-9	The substance is not PBT / vPvB.
Titanium dioxide 13463-67-7	The substance is not PBT / vPvB. PBT assessment does not apply.
Trimethoxyvinylsilane 2768-02-7	The substance is not PBT / vPvB.

12.6 Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste from residues/unused products: Uncured product should be disposed of as hazardous waste. 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.

14. TRANSPORT INFORMATION

14.1 UN number
ADR, RID, IMDG, ICAO-TI, IATA-DGR: Not regulated.

14.2 Proper Shipping Name
ADR, RID, IMDG, ICAO-TI, IATA-DGR: Not regulated.

14.3 Transport hazard class(es)
ADR, RID, IMDG, ICAO-TI, IATA-DGR: Not regulated.

14.4 Packing group
ADR, RID, IMDG, ICAO-TI, IATA-DGR: Not regulated.

14.5 Environmental hazards
Environmental hazards (ADR/RID): Not applicable.
Marine pollutant (IMDG): Np.
Environmental hazards (ICAO-TI/IATA-DGR): Not applicable.

14.6 Special provisions
ADR, RID, IMDG, ICAO-TI, IATA-DGR: None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. REGULATORY INFORMATION

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

European Union:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work.

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006):

SVHC: Substances of Very High Concern for Authorization: This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No.1907/2006 (REACH), Article 59).

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction: This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
Diisononyl phthalate	28553-12-0	52[a]

52: Not to be used in toys or childcare articles above 0.1% which can be placed in the mouth by children.

Substance subject to authorization per REACH Annex XIV: This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV).

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable.

Persistent Organic Pollutants: Not applicable.

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 mixture1.

16. OTHER INFORMATION

Full text of H-Statements referred to under section 3:

H317	May cause an allergic skin reaction.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H371	May cause damage to organs.
H351i	Suspected to provoke cancer through inhalation.

Abbreviations and acronyms:

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.

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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.