<b>Permabond</b> <sup>®</sup>
Engineering Adhesives

Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 1 / 10

# Safety Data Sheet According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the su	ıbstance/mixtur	e and of the com	pany/undertaking
1.1. Product identifier			
Product name	Permabond MS	359A Grey	
1.2. Relevant identified uses of the substance of	or mixture and uses a	dvised against	
Intended use	Adhesive. Seali	ng.	
Identified Uses	Industrial	Professional	Consumer
Use	$\checkmark$	$\checkmark$	-
1.3. Details of the supplier of the safety data sh	eet		
Name Full address District and Country e-mail address of the competent person responsible for the Safety Data Sheet Supplier:	Niederkasseler 40547 Di Ge Tel. +4 info.europe@pe Permabond Eng Wessex Way, Co Winchester, Har tel: +44 (0)1962	isseldorf ermany 4 (0)1962 711 661 rmabond.com jineering Adhesives Ltd olden Common, npshire SO21 1WP, UK	
1.4. Emergency telephone number		e e e e e e e e e e e e e e e e e e e	
For urgent inquiries refer to		661 ( 8.00 am-5.00 pm	Mon-Fri)
	CHEMTREC Irel CHEMTREC Aus	: +(44)-870-8200418 and: +(353)-19014670 stralia: +(61)-290372994 v Zealand: +(64)-980100	34
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture The product is classified as hazardous pursuant amendments and supplements). The product th 2020/878. Any additional information concerning the risks	us requires a safety da	tasheet that complies wit	n the provisions of (EU) Regulation
Hazard classification and indication:			

Hazard classification and indication:		
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 2 / 10

### SECTION 2. Hazards identification ... / >>

Signal words:	Warning
Hazard statements: H319 H317	Causes serious eye irritation. May cause an allergic skin reaction.
Precautionary statements: P280 P305+P351+P338	Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Contains:	REACTION MASS OF DECANEDIOIC ACID BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERINYL)ESTER AND DECANEDIOIC-ACID, (1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL)METHYL-ESTER TRIMETHOXYVINYLSILANE

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq 0.1\%$ .

#### SECTION 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Contains.			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
3-AMINOPRO	PYLTRIMETHOX	/SILANE	
INDEX		1≤x< 3	Eye Dam. 1 H318, Skin Irrit. 2 H315
EC	237-511-5		
CAS	13822-56-5		
TRIMETHOXY	VINYLSILANE		
INDEX	014-049-00-0	0,1 ≤ x < 1	Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Sens. 1B H317, EUH208
EC	220-449-8		LC50 Inhalation vapours: 16,8 mg/l/4h
CAS	2768-02-7		
REACH Reg.	01-2119513215-	52-XXXX	
REACTION M	IASS OF DECANE	DIOIC ACID BIS (1,2,2,	6,6-PENTAMETHYL-4-PIPERINYL)ESTER AND DECANEDIOIC-ACID,
(1,2,2,6,6-PEN	NTAMETHYL-4-PIF	PERIDINYL)METHYL-E	STER
INDEX		0,1 ≤ x < 0,25	Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410
50	045 607 0		M=1
EC	915-687-0		
CAS		(0)000(	
REACH Reg.	01-2119491304-	4U-XXXX	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

# **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

Skin: Wash the skin thoroughly with soap and water. If symptoms arise, request medical assistance Eyes: Make sure you have removed any contact lenses before rinsing your eyes. Wash Readyly and abundantly the eyes with water keeping the eyelids open. Continue to rinse for at least 15 minutes. Consult a doctor if the discomfort continues. Ingestion: rinse the mouth with water thoroughly. Make a abundant quantity of water drink. Do not cause vomiting. Consult a doctor. Inhalation: move the subject exposed in the open air. Consult a doctor in case of serious symptoms or persistent.

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

Contact with the skin: skin irritation. Mild dermatitis, allergic rash.

# Permabond

# **Permabond Engineering Adhesives**

# Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 3 / 10

#### SECTION 4. First aid measures .../>>

Contact with eyes: irritating and can cause redness and pain.

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

Note for the doctor no specific recommendation. Symptomatic treatment.

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE Avoid breathing combustion products, carbon monoxide (CO), carbon dioxide (CO2), and nitric oxides (NOx).

#### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.



Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 4 / 10

SECTION 7. Handling and storage ... / >>

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

Adhesive

# **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

			TRIMETHO					
redicted no-effect cor		- PNEC				0.4		
Normal value in fresh						0,4	mg/l	
Normal value in marine water						0,04	mg/l	
Normal value for fres						1,5	mg/kg/d	
Normal value for mar						0,15	mg/kg/d	
Normal value for the		•				0,06	mg/kg/d	
ealth - Derived no-eff								
		n consumers			Effects on w			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,3				
				mg/kg bw/d				
Inhalation				18,9				27,6
				mg/m3				mg/m3
Skin				7,8				3,9
				mg/kg bw/d				mg/kg
EACTION MASS OF D	DECANEDIC	DIC ACID BIS (1,	2,2,6,6-PENTA		ERINYL)ESTE	R AND		bw/d
ECANEDIOIC-ACID, (	1,2,2,6,6-PE	NTAMETHYL-4		METHYL-4-PIP		R AND		
ECANEDIOIC-ACID, ( redicted no-effect cor	1,2,2,6,6-PE	NTAMETHYL-4		METHYL-4-PIP				
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh	1,2,2,6,6-PE ncentration water	NTAMETHYL-4		METHYL-4-PIP		0,0022	mg/l	
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marii	1,2,2,6,6-PE ncentration water ne water	NTAMETHYL-4 - PNEC		METHYL-4-PIP		0,0022 0,00002	mg/l	
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres	1,2,2,6,6-PE ncentration water ne water h water sedi	<b>NTAMETHYL-4</b> - <b>PNEC</b> ment		METHYL-4-PIP		0,0022 0,00002 1,05	mg/l mg/kg	
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar	1,2,2,6,6-PE ncentration water ne water h water sedi ine water se	- PNEC		METHYL-4-PIP		0,0022 0,00002 1,05 0,11	mg/l mg/kg mg/kg	
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar Normal value for the	1,2,2,6,6-PE ncentration water ne water h water sedi ine water se terrestrial co	• PNEC		METHYL-4-PIP		0,0022 0,00002 1,05	mg/l mg/kg	
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar	1,2,2,6,6-PE ncentration water ne water h water sedi ine water sedi terrestrial co ect level - D	PNEC		METHYL-4-PIP	R	0,0022 0,00002 1,05 0,11 0,21	mg/l mg/kg mg/kg	
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar Normal value for the ealth - Derived no-eff	1,2,2,6,6-PE ncentration water he water h water sedi ine water sedi terrestrial co ect level - D Effects on	• PNEC • PNEC ment ediment ompartment • ONEL / DMEL n consumers	-PIPERIDINYL)I	METHYL-4-PIP METHYL-ESTE	R Effects on w	0,0022 0,00002 1,05 0,11 0,21 orkers	mg/l mg/kg mg/kg mg/kg	bw/d
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar Normal value for the	1,2,2,6,6-PE ncentration water he water h water sedi ine water sedi terrestrial co ect level - D Effects on Acute	ment ompartment <b>DNEL / DMEL</b> n consumers Acute	-PIPERIDINYL)I	METHYL-4-PIP METHYL-ESTE	R Effects on w Acute	0,0022 0,00002 1,05 0,11 0,21 orkers Acute	mg/l mg/kg mg/kg mg/kg Chronic	bw/d Chronic
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar Normal value for the ealth - Derived no-eff	1,2,2,6,6-PE ncentration water he water h water sedi ine water sedi terrestrial co ect level - D Effects on	• PNEC • PNEC ment ediment ompartment • ONEL / DMEL n consumers	-PIPERIDINYL)I	METHYL-4-PIP METHYL-ESTE Chronic systemic	R Effects on w	0,0022 0,00002 1,05 0,11 0,21 orkers	mg/l mg/kg mg/kg mg/kg	bw/d
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar Normal value for the ealth - Derived no-eff	1,2,2,6,6-PE ncentration water he water h water sedi ine water sedi terrestrial co ect level - D Effects on Acute	ment ompartment <b>DNEL / DMEL</b> n consumers Acute	-PIPERIDINYL)I	METHYL-4-PIP METHYL-ESTE	R Effects on w Acute	0,0022 0,00002 1,05 0,11 0,21 orkers Acute	mg/l mg/kg mg/kg mg/kg Chronic	bw/d Chronic
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar Normal value for the ealth - Derived no-effe Route of exposure	1,2,2,6,6-PE ncentration water he water h water sedi ine water sedi terrestrial co ect level - D Effects on Acute	ment ompartment <b>DNEL / DMEL</b> n consumers Acute	-PIPERIDINYL)I	Chronic systemic 0.5 mg/kg/d 0,87	R Effects on w Acute	0,0022 0,00002 1,05 0,11 0,21 orkers Acute	mg/l mg/kg mg/kg mg/kg Chronic	bw/d Chronic systemic 3,53
ECANEDIOIC-ACID, ( redicted no-effect cor Normal value in fresh Normal value in marin Normal value for fres Normal value for mar Normal value for mar Normal value for the ealth - Derived no-eff Route of exposure Oral	1,2,2,6,6-PE ncentration water he water h water sedi ine water sedi terrestrial co ect level - D Effects on Acute	ment ompartment <b>DNEL / DMEL</b> n consumers Acute	-PIPERIDINYL)I	Chronic systemic 0.5 mg/kg/d	R Effects on w Acute	0,0022 0,00002 1,05 0,11 0,21 orkers Acute	mg/l mg/kg mg/kg mg/kg Chronic	bw/d Chronic systemic

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).



Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 5 / 10

#### SECTION 8. Exposure controls/personal protection ..../>>

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

#### **SECTION 9.** Physical and chemical properties

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

Properties		Value	Information		
Appearance		liquid			
Colour		grey			
Odour		characteristic			
Melting point / freezing point		not available			
Initial boiling point		not available			
Flammability		not available			
Lower explosive limit		not available			
Upper explosive limit		not available			
Flash point	>	100 °C			
Auto-ignition temperature		not available			
Decomposition temperature		not available			
рН		not available	Reason for missir	ig data:subs	stance/mixture is
			non-soluble	(in	water)
Kinematic viscosity		not available			
Dynamic viscosity		~17500 mPa.s Thixo	Temperature: 23	°C	
Solubility		not available			
Partition coefficient: n-octanol/water		not available			
Vapour pressure		not available			
Density and/or relative density		1,5 kg/l			
Relative vapour density		not available			
Particle characteristics		not applicable			

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.



# Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 6 / 10

### SECTION 10. Stability and reactivity .../>>

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Strong reducing and oxidizing agents.

#### 10.6. Hazardous decomposition products

By thermal decomposition, carbon monoxide, carbon dioxide and ed other unidentified organic compounds.

### **SECTION 11. Toxicological information**

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

TRIMETHOXYVINYLSILANE
LD50 (Dermal):
LD50 (Oral):
LC50 (Inhalation vapours):

REACTION MASS OF DECANEDIOIC ACID BIS (1,2,2,6,6-PENTAMETHYL-4-PIPERINYL)ESTER AND DECANEDIOIC-ACID, (1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL)METHYL-ESTER LD50 (Dermal): > 3000 mg/kg LD50 (Oral): > 2000 mg/kg

> 32650 mg/kg 11000 mg/kg 16,8 mg/l/4h

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class



# Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 7 / 10

# SECTION 11. Toxicological information ... / >>

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

# **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

3-AMINOPROPYLTRIMETHOXYSILANE	
LC50 - for Fish	1264 mg/l/96h
EC50 - for Crustacea	302 mg/l/48h
TRIMETHOXYVINYLSILANE	
LC50 - for Fish	191 mg/l/96h
EC50 - for Crustacea	168,7 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 89 mg/l/72h
REACTION MASS OF DECANEDIOIC ACID BIS (1,2,2, (1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL)METHYL-E LC50 - for Fish Chronic NOEC for Crustacea	6,6-PENTAMETHYL-4-PIPERINYL)ESTER AND DECANEDIOIC-ACID, STER 0,9 mg/l/96h 1 mg/l
12.2. Persistence and degradability	
TRIMETHOXYVINYLSILANE NOT rapidly degradable	
12.3. Bioaccumulative potential	

Information not available

### 12.4. Mobility in soil

Information not available

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects



Permabond MS359A Grey

Information not available

# **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

08 04 09\* stickers and sealed sealing, containing organic solvents or other dangerous substances

### **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

#### 14.3. Transport hazard class(es)

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

#### 14.6. Special precautions for user

not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

### **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU:		None
Restrictions relating to th	e product or contained	substances pursuant to Annex XVII to EC Regulation 1907/2006
Product		
Point	3 - 40	
Contained substance		
Point	75	
Regulation (EU) 2019/11	48 - on the marketing a	and use of explosives precursors

not applicable



# Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 9 / 10

#### SECTION 15. Regulatory information ... / >>

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention: None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains <name of="" sensitising="" substance="">. May produce an allergic reaction.</name>

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation

ΕN



# Permabond MS359A Grey

Revision nr.1 Dated 04/04/2023 First compilation Printed on 04/04/2023 Page n. 10 / 10

### SECTION 16. Other information ... / >>

- PEC: Predicted environmental Concentration

- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

# CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.