PermaSwade 9411 - Silk

F63VC29

# SAFETY DATA SHEET

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

1.1 Product identifier

Product name : PermaSwade 9411 - Silk

**Product code** : F63VC29

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

**Material uses** : Paint or paint related material.

: Industrial use only.

# 1.3 Details of the supplier of the safety data sheet

Mfg. in U.S.A and exported by: The Sherwin-Williams Company 101 Prospect Avenue N.W. Cleveland, OH 44115

EU Only Representative: Valspar B.V.

Zuiveringweg 89 8243 PE Lelystad P.O. Box 2139 The Netherlands

Phone: +31 (0)320 29 22 00

e-mail address of person

responsible for this SDS

: sds@sherwin.com

### 1.4 Emergency telephone number

### National advisory body/Poison Center

**Telephone number** : +359 2 9154 233

**Supplier** 

**Telephone number** : +1 703-741-5970

Hours of operation : Emergency contact available 24 hours a day

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Repr. 1B, H360D

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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#### SECTION 2: Hazards identification

Hazard pictograms

Signal word : Danger

**Hazard statements**: May damage the unborn child.

**Precautionary statements** 

Prevention : Obtain special instructions before use. Wear protective gloves, protective clothing,

eye protection, face protection, or hearing protection.

**Response**: IF exposed or concerned: Get medical advice or attention.

**Storage** : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

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Hazardous ingredients : 1-Methyl-2-Pyrrolidone

Supplemental label

elements

: Contains UV Light Absorber, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate,

Benzotriazole Hydroxyphenyl Polymer and reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic

reaction. FOR INDUSTRIAL USE ONLY

#### Special packaging requirements

Not applicable.

#### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do

not result in classification

: None known.

# SECTION 3: Composition/information on ingredients

### 3.2 Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
2-(2-Butoxyethoxy)- ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	[1] [2]
1-Methyl-2-Pyrrolidone	REACH #: 01-2119472430-46 EC: 212-828-1 CAS: 872-50-4 Index: 606-021-00-7	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360D STOT SE 3, H335	[1] [2]
Acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Dimethylethanol Amine		<1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318	[1]

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

<del>-</del> 1			See Section 16 for the full text of the H statements declared above.	
no. 220-239-6] (3:1)			Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071	
and 2-methyl-2H- isothiazol-3-one [EC			Eye Dam. 1, H318 Skin Sens. 1A, H317	
[EC no. 247-500-7]	Index: 613-167-00-5		Skin Corr. 1C, H314	
4-isothiazolin-3-one	CAS: 55965-84-9		Acute Tox. 2, H330	
5-chloro-2-methyl-	01-2120764691-48		Acute Tox. 2, H310	
reaction mass of:	REACH #:	<0.001	Acute Tox. 3, H301	[1]
Hydroxyphenyl Polymer			Aquatic Chronic 2, H411	
Benzotriazole	CAS: 104810-47-1	≤0.3	Skin Sens. 1, H317	[1]
			Aquatic Chronic 1, H410 (M=1)	
- pipolidyi/sobdodio	O/10. 41000-20-1		Aquatic Acute 1, H400 (M=1)	
4-piperidyl)sebacate	CAS: 41556-26-7	30.20	Repr. 2, H361f	
Bis(pentamethyl-	EC: 255-437-1	<0.25	Skin Sens. 1, H317	[1]
UV Light Absorber	CAS: 104810-48-2	≤0.3	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
LDALS OLA AL L	0.4.0.4.0.4.0.4.0.0	40.0	Aquatic Acute 1, H400 (M=1)	[4]
	Index: 007-010-00-4		Eye Irrit. 2, H319	
	CAS: 7632-00-0		Acute Tox. 3, H301	
Sodium Nitrite	EC: 231-555-9	≤0.3	Ox. Sol. 3, H272	[1]
			STOT SE 3, H335	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give
	anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

trained personner

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

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

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#### **SECTION 4: First aid measures**

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains UV Light Absorber, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Benzotriazole Hydroxyphenyl Polymer. May produce an allergic reaction.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, carbon dioxide, powders.

Unsuitable extinguishing

media

: Do not use water jet.

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

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion

products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

#### **SECTION 6: Accidental release measures**

Due to the organic solvents content of the mixture:

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

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

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#### **SECTION 6: Accidental release measures**

# 6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

# 6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 7.1 Precautions for safe handling

: Due to the organic solvents content of the mixture:

Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

Information on fire and explosion protection

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

# 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Contaminated absorbent material may pose the same hazard as the spilled product.

Store above 5°C (42°F) Protect from frost.

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# **SECTION 7: Handling and storage**

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

# Occupational exposure limits

#### Product/ingredient name

#### **Exposure limit values**

2-(2-Butoxyethoxy)-ethanol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 1/2020).  Limit value 8 hours: 67.5 mg/m³ 8 hours.  Limit value 15 min: 101.2 mg/m³ 15 minutes.  Limit value 15 min: 15 ppm 15 minutes.  Limit value 8 hours: 10 ppm 8 hours.
1-Methyl-2-Pyrrolidone	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 1/2020). Absorbed through skin.
	Limit value 15 min: 20 ppm 15 minutes. Limit value 15 min: 80 mg/m³ 15 minutes. Limit value 8 hours: 10 ppm 8 hours. Limit value 8 hours: 40 mg/m³ 8 hours.
Acetone	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 1/2020).  Limit value 8 hours: 600 mg/m³ 8 hours.  Limit value 15 min: 1400 mg/m³ 15 minutes.

# Recommended monitoring procedures

- : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

### **DNELs/DMELs**

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-(2-Butoxyethoxy)-ethanol	DNEL	Long term	62.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Long term Inhalation	62.5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	60.7 mg/m³	General population [Consumers]	Local
	DNEL	Long term Inhalation	40.5 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	40.5 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Dermal	50 mg/kg bw/day	[Consumers] General population [Consumers]	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term	101.2 mg/ m³	Workers	Local
	DNEL	Inhalation Long term Inhalation	67.5 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	67.5 mg/m³	Workers	Local
1-Methyl-2-Pyrrolidone	DNEL	Long term Dermal	4.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation		Workers	Systemic
Acetone	DNEL	Long term Dermal	186 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1210 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	2420 mg/ m³	Workers	Local
	DNEL	Long term Dermal	62 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	200 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Long term Oral	62 mg/kg bw/day	General population [Consumers]	Systemic
Sodium Nitrite	DNEL	Long term Inhalation	2 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	2 mg/m³	Workers	Systemic
UV Light Absorber	DNEL	Long term Inhalation	0.35 mg/m <sup>3</sup>	Workers	Systemic
Bis(pentamethyl-4-piperidyl)sebacate	DNEL DNEL	Long term Dermal Long term Inhalation	0.5 mg/kg 1.27 mg/m³	Workers Workers	Systemic Systemic
	DNEL	Long term Dermal	1.8 mg/kg	Workers	Systemic

**PNECs** 

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# SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail	Value	Method Detail
2-(2-Butoxyethoxy)-ethanol	Fresh water	1 mg/l	-
	Marine water	0.1 mg/l	-
	Fresh water sediment	4.9 mg/kg	-
	Marine water sediment	0.4 mg/kg	-
	Sewage Treatment	200 mg/l	-
	Plant		
	Secondary Poisoning	56 mg/kg	-
	Soil	0.4 mg/kg	-
	Fresh water	1 mg/l	-
1-Methyl-2-Pyrrolidone	Fresh water	0.25 mg/l	-
	Marine water	0.025 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant		
	Fresh water sediment	0.805 mg/kg	-
	Marine water sediment	0.0805 mg/kg	-
	Soil	0.138 mg/kg	-
Acetone	Fresh water	10.6 mg/l	-
	Marine water	1.06 mg/l	-
	Sewage Treatment	100 mg/l	-
	Plant		
	Fresh water sediment	30.4 mg/kg	-
	Sediment	3.04 mg/kg	-
	Soil	29.5 mg/kg	-
Sodium Nitrite	Fresh water	0.0054 mg/l	_
	Marine water	0.00616 mg/l	_
	Fresh water sediment	0.0195 mg/kg	-
	Marine water sediment	0.0223 mg/kg	_
	Soil	0.000733 mg/kg	_
	Sewage Treatment	21 mg/l	_
	Plant	_ · ··· <b>.</b>	

#### 8.2 Exposure controls

Appropriate engineering controls

- : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
- : Users are advised to consider national Occupational Exposure Limits or other equivalent values.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection
Skin protection

: Use safety eyewear designed to protect against splash of liquids.

Hand protection

: Wear suitable gloves tested to EN374.

Gloves

: Gloves for short term exposure/splash protection (less than 10 min): Nitrile >0.12

mm
Gloves for splash protection need to be changed immediately when in contact with

chemicals.

Gloves for repeated or prolonged exposure (breakthrough time > 480 min): Butyl

gloves >0.3 mm

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time

determined through testing.

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

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG).

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection**: Personnel should wear protective clothing.

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**Respiratory protection**: Application methods:

Brush or roller. Approved/certified respirator with organic vapor cartridge. Filter type:

A2 P2 (EN14387).

Manual spraying. Use a properly fitted, air-purifying or air-fed respirator complying

with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure

controls

: Do not allow to enter drains or watercourses.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

# 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : Not available.

Odor : Paint

Odor threshold : Not Available (Not Tested).

**pH** : 8.6

**Melting point/freezing point**: Not relevant/applicable due to nature of the product.

Initial boiling point and

boiling range

: 100°C

Flash point : Closed cup: 110°C [Pensky-Martens Closed Cup]

**Evaporation rate** : 0.09 (butyl acetate = 1)

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

Flammability (solid, gas) : Not relevant/applicable due to nature of the product.

Upper/lower flammability or

explosive limits

: LEL: 0.9% (2-(2-Butoxyethoxy)-ethanol) UEL: 5.9% (2-(2-Butoxyethoxy)-ethanol)

Vapor pressure : 2.3 kPa (17.5 mm Hg)

Vapor density : 1 [Air = 1] Relative density : 1.07

Solubility(ies) : Not relevant/applicable due to nature of the product. **Partition coefficient:** n-octanol/: Not relevant/applicable due to nature of the product.

water

Auto-ignition temperature : Not relevant/applicable due to nature of the product. Decomposition temperature : Not relevant/applicable due to nature of the product.

: Kinematic (40°C): >20.5 mm<sup>2</sup>/s **Viscosity** 

Explosive properties : Under normal conditions of storage and use, hazardous reactions will not occur. : Under normal conditions of storage and use, hazardous reactions will not occur. Oxidizing properties

# SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains UV Light Absorber, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Benzotriazole Hydroxyphenyl Polymer.

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# **SECTION 11: Toxicological information**

May produce an allergic reaction.

# **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-Butoxyethoxy)-ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
1-Methyl-2-Pyrrolidone	LD50 Dermal	Rabbit	8 g/kg	-
	LD50 Oral	Rat	3914 mg/kg	-
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Dimethylethanol Amine	LC50 Inhalation Gas.	Rat	1641 ppm	4 hours
	LD50 Oral	Rat	2 g/kg	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	LD50 Oral	Rat	53 mg/kg	-

# **Acute toxicity estimates**

Route	ATE value
Oral	70878.86 mg/kg
Inhalation (gases)	511738.86 ppm

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-Butoxyethoxy)-ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
, , , , , , , , , , , , , , , , , , , ,				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
1-Methyl-2-Pyrrolidone	Eyes - Moderate irritant	Rabbit	-	100 mg	-
Acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	395 mg	-
Dimethylethanol Amine	Eyes - Severe irritant	Rabbit	-	5 uL	-
-	Skin - Mild irritant	Rabbit	-	445 mg	-
Sodium Nitrite	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
reaction mass of: 5-chloro-	Skin - Severe irritant	Human	-	0.01 %	-
2-methyl-4-isothiazolin-					
3-one [EC no. 247-500-7]					
and 2-methyl-2H-isothiazol-					
3-one [EC no. 220-239-6] (3:					
1)					

Conclusion/Summary

: Not available.

**Sensitization** 

No data available

**Conclusion/Summary**: Not available.

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# **SECTION 11: Toxicological information**

# **Mutagenicity**

No data available

# **Carcinogenicity**

No data available

#### Reproductive toxicity

No data available

#### **Teratogenicity**

No data available

# Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1-Methyl-2-Pyrrolidone	Category 3	-	Respiratory tract irritation
Acetone	Category 3	-	Narcotic effects
Dimethylethanol Amine	Category 3	-	Respiratory tract irritation

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
No data available			

#### **Aspiration hazard**

Product/ingredient name	Result
No data available	

# Other information : Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
2-(2-Butoxyethoxy)-ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
1-Methyl-2-Pyrrolidone	Acute LC50 1.23 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 832 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 7460000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
Sodium Nitrite	Acute EC50 159000 µg/l Marine water	Algae - Tetraselmis chuii	72 hours
	Acute EC50 1600000 μg/l Marine water	Algae - Tetraselmis chuii	96 hours

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# **SECTION 12: Ecological information**

5	
Acute LC50 1100 μg/l Fresh water Crustaceans - Cherax quadricarinatus	8 hours
Acute LC50 18.75 mg/l Fresh water Daphnia - Daphnia similoides 4	l8 hours
Acute LC50 0.16 µg/l Fresh water Fish - Ictalurus punctatus - Fingerling	6 hours
	21 days
1.12.1.1112	28 days

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				

### **Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-Butoxyethoxy)-ethanol	-	-	Readily
Acetone	-	-	Readily

# 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
No data available			

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

: No known significant effects or critical hazards.

: Avoid dispersal of spilled material and runoff and contact with soil, waterways,

drains and sewers.

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

# **Product**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Yes.

European waste catalogue (EWC)

: waste paint and varnish containing organic solvents or other hazardous substances

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# **SECTION 13: Disposal considerations**

Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**Packaging** 

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

European waste catalogue (EWC) Special precautions : packaging containing residues of or contaminated by hazardous substances 15 01

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport Hazard Class(es)/ Label(s)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
Additional information	-	-	-

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not applicable.

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# **SECTION 14: Transport information**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

: Restricted to professional users.

# Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

# Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
1-Methyl-2-Pyrrolidone	Toxic to reproduction	Recommended	ED/79/2015	2/5/2018

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Other EU regulations** 

VOC content (2010/75/EU) : 1.2 w/w

13 **g/l** 

### **Seveso Directive**

This product is not controlled under the Seveso Directive.

### **National regulations**

15.2 Chemical Safety Assessment

: No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

N/A = Not available

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# **SECTION 16: Other information**

Key literature references and sources for data

: Regulation (EC) No. 1272/2008 [CLP]

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Commission Regulation (EU) 2015/830

Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions

**CEPE** Guidelines

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	fication	Justification
Repr. 1B, H360D		Calculation method
Full text of abbreviated H statements	: H225 H226 H272 H301 H302 H310 H312 H314 H315 H317 H318 H319 H330 H331 H335 H336 H360D H361f H400 H410 H411 EUH066 EUH071	Highly flammable liquid and vapor. Flammable liquid and vapor. May intensify fire; oxidizer. Toxic if swallowed. Harmful if swallowed. Fatal in contact with skin. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May damage the unborn child. Suspected of damaging fertility. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. Corrosive to the respiratory tract.
Full text of classifications [CLP/GHS]	: Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Ox. Sol. 3 Repr. 1B Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1 SKIN Sens. 1A STOT SE 3	

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#### **SECTION 16: Other information**

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: If there is no previous validation date please contact your supplier for more

information.

**Version** : 10.03

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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