

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 25/3/2024 Version: 1.0

# PremFire FR Silicone

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

# 1.1. Product Name/Identifier

PremFire FR Silicone

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

Sealant.

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

Premier Sealant Systems Ltd. Mercia Way, Foxhills Industrial Park, Scunthorpe, North Lincolnshire, DN15 8RE Tel. 01724 864 100

## 1.4. Emergency telephone number

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only). For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist. In Europe call 112.

### 2. HAZARDS IDENTIFICATION

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

## **Classification according to GB CLP Regulation**

Classification of this product has been carried out in accordance with GB CLP Regulation. Skin Sens. 1B: Sensitisation, skin, Category 1B, H317.

## 2.2. Label elements

## **Hazard pictograms**



Premier Sealant Systems Ltd.



# Signal word

Warning

#### **Hazard statements**

H317 - May cause an allergic skin reaction.

#### **Precautionary statements**

P101: If medical advice is needed, have product container or label at hand.

P103: Read label before use.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P501: Dispose of contents/ container in accordance with local/regional/national/international regulation.

### **Supplemental label information**

Contains Butan-2-one O,O',O''-(vinylsilylidyne)trioxime, N-(3-(trimethoxysilyl)propyl)ethylenediamine.

## Substances that contribute to the classification

Butan-2-one O,O',O''-(methylsilylidyne)trioxime.

#### 2.3. Other hazards

Product does not meet PBT/vPvB criteria.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable.

## 3.2. Mixtures

This product is a mixture composed of polymers, dispersants and organic compounds. In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification Chemical name/		Chemical name/Classification	Concentrati
			on
		Butan-2-one O,O',O''-(methylsilylidyne)trioxime	2.5 - <5 %
CAS:	22984-54-9	Eye Irrit. 2: H319; Skin Sens. 1B: H317; STOT RE 2: H373 - Warning	2,5 - <5 /6
		N-(3-(trimethoxysilyl)propyl)ethylenediamine	0.1 - <1 %
CAS:	1760-24-3	Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	0,1 - <1 /6
		Butan-2-one O,O´,O´´-(vinylsilylidyne)trioxime	0.1 - <1 %
CAS:	2224-33-1	Eye Dam. 1: H318; Skin Sens. 1B: H317; STOT RE 2: H373 - Danger	0,1 - <1 %

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

#### Other information

Not applicable.



# 4. FIRST AID MEASURES

## 4.1. Description of first aid measures

#### **General information**

In all cases of doubt, or if symptoms persist, seek medical attention and show this SDS. Never give anything by mouth to an unconscious person.

**Inhalation:** This product does not contain substances classified as hazardous

for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or

persist.

**Ingestion:** In case of consumption, seek immediate medical assistance

showing the SDS for the product.

**Skin contact:** May cause an allergic skin reaction. In case of contact it is

recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters), seek medical advice with this Safety

Data Sheet.

**Eye contact:** Rinse eyes thoroughly with lukewarm water for at least 15 minutes.

Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted

as quickly as possible with the SDS of the product.

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

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

#### Notes for the doctor

Not applicable.

#### **Specific treatments**

Treat symptomatically.

## 5. FIREFIGHTING MEASURES

# 5.1. Extinguishing media

# Suitable extinguishing media

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

## Unsuitable extinguishing media

Non-applicable.



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

## **Specific hazards**

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

## 5.3. Advice for firefighters

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit). Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## **Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves).

## 6. ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

## For emergency responders:

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

## 6.2. Environmental precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

## Methods and material for containment and cleaning up

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

## 7. HANDLING AND STORAGE

## 7.1. Precautions for safe handling

### **Usage precautions**

A.- General precautions for safe use:



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

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

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene:

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

D.- Technical recommendations to prevent environmental risks:

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3).

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash their hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

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

#### **Storage precautions**

Store in a cool, dry, well-ventilated location. Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.

#### **Storage class**

Not classified.

# 7.3. Specific end use(s)

Field of application of the product is described in Technical data sheet (TDS).

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the workplace: There are no applicable occupational exposure limits for the substances contained in the product



## **DNEL (Workers)**

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Butan-2-one O,O',O''-(methylsilylidyne)trioxime	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 22984-54-9	Dermal	Non-applicable	Non-applicable	0.145 mg/kg	Non-applicable
EC: 245-366-4	Inhalation	Non-applicable	Non-applicable	1.02 mg/m <sup>3</sup>	Non-applicable
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 2224-33-1	Dermal	Non-applicable	Non-applicable	0.15 mg/kg	Non-applicable
EC: 218-747-8	Inhalation	Non-applicable	Non-applicable	1.06 mg/m³	Non-applicable

## **DNEL** (General population)

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Butan-2-one O,O',O''-(methylsilylidyne)trioxime	Oral	Non-applicable	Non-applicable	0.072 mg/kg	Non-applicable
CAS: 22984-54-9	Dermal	Non-applicable	Non-applicable	0.072 mg/kg	Non-applicable
EC: 245-366-4	Inhalation	Non-applicable	Non-applicable	0.25 mg/m <sup>3</sup>	Non-applicable
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	Oral	Non-applicable	Non-applicable	0.075 mg/kg	Non-applicable
CAS: 2224-33-1	Dermal	Non-applicable	Non-applicable	0.075 mg/kg	Non-applicable
EC: 218-747-8	Inhalation	Non-applicable	Non-applicable	0.26 mg/m <sup>3</sup>	Non-applicable

#### **Predicted No Effect Concentration**

Identification				
Butan-2-one O,O',O''-(methylsilylidyne)trioxime	STP	3.9 mg/L	Fresh water	0.018 mg/L
CAS: 22984-54-9	Soil	65.63 mg/kg	Marine water	0.002 mg/L
EC: 245-366-4	Intermittent	Non-applicable	Sediment (Fresh water)	557.543 mg/kg
LC. 243-300-4	Oral	0.00322 g/kg	Sediment (Marine water)	55.754 mg/kg
N-(3-(trimethoxysilyl)propyl)ethylenediamine	STP	25 mg/L	Fresh water	0.062 mg/L
CAS: 1760-24-3	Soil	0.009 mg/kg	Marine water	0.006 mg/L
EC: 217-164-6	Intermittent	0.62 mg/L	Sediment (Fresh water)	0.22 mg/kg
20,21, 20. 0	Oral	Non-applicable	Sediment (Marine water)	0.022 mg/kg
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	STP	4.06 mg/L	Fresh water	0.019 mg/L
CAS: 2224-33-1	Soil	133.8 mg/kg	Marine water	0.002 mg/L
EC: 218-747-8	Intermittent	Non-applicable	Sediment (Fresh water)	1136.562 mg/kg
EC. 210-747-0	Oral	0.003333 g/kg	Sediment (Marine water)	113.656 mg/kg

#### 8.2. Exposure controls

## **Appropriate engineering controls**

Appropriate ventilation, emergency shower and eyewash station recommended.

## **Eye/face protection**

Panoramic glasses against splash/projections. Use if there is a risk of splashing.

## **Hand protection**

Protective gloves against minor risks. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018.



## Other skin and body protection

Work clothing - For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.

Anti-slip work shoes - For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007.

## **Respiratory protection**

Filter mask for gases, vapours and particles are mandatory.

## **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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## **Environmental exposure controls**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 1.06 % weight

 $13.25 \text{ kg/m}^3 (13.25 \text{ g/L}).$ V.O.C. density at 20 °C:

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance Paste Colour White

Odour Not available Odour threshold Not available рΗ Not available Melting point Not applicable

191 °C Initial boiling point and range

Flash point Non Flamable (>60 °C) Evaporation rate No information available No information available Evaporation factor Flammability (solid, gas) No information available No information available

Upper/lower flammability or explosive limits

Vapour pressure at 20 °C 45 Pa

Vapour pressure at 50 °C 236.81 (0.24 kPa)

Vapour density No information available Density at 20°C 1245 kg/m<sup>3</sup>

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Relative density 1.515

Bulk densityNo information availableSolubility(ies)No information availablePartition coefficientNo information available

Auto-ignition temperature 235 °C

Decomposition Temperature No information available Viscosity No information available

Explosive properties

Oxidising properties

VOC

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

#### 9.2. Other information

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY

## 10.1. Reactivity

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

### 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

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

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Avoid contact with strong acids, alkalis and strong basis.

## 10.6. Hazardous decomposition products

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



#### 11.TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available. In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

## **Acute toxicity (Acute oral toxicity)**

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

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

## Acute toxicity (Acute dermal toxicity)

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

## **Acute toxicity (Acute inhalation toxicity)**

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

## **Skin Corrosion/Irritation**

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

#### Serious Eye Damage/Irritation

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

## **Respiratory or Skin Sensitisation**

Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3. Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

## **Germ Cell Mutagenicity**

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

## Carcinogenicity

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

## **Reproductive Toxicity**

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



# Specific target organ toxicity (single exposure)

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

# **Specific target organ toxicity (repeated exposure)**

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

## **Aspiration Hazard**

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

## 11.2. Components influencing toxicology

#### Specific toxicology information on the substances:

Identification	Acu	Acute toxicity		
Butan-2-one O,O',O''-(methylsilylidyne)trioxime	LD50 oral	2247 mg/kg	Rat	
CAS: 22984-54-9	LD50 dermal	>5000 mg/kg		
CA3. 22704-34-7	LC50 inhalation	>20 mg/L		
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LD50 oral	>5000 mg/kg	Rat	
CAS: 1760-24-3	LD50 dermal	>5000 mg/kg		
0.012700 2.13	LC50 inhalation	>20 mg/L		
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	LD50 oral	3519 mg/kg	Rat	
CAS: 2224-33-1	LD50 dermal	>5000 mg/kg		
CA3. 2224-33-1	LC50 inhalation	>20 mg/L		

#### Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity	
Oral >5000 mg/kg (Calculation method)		Non-applicable
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

#### 11.3. Information on other hazards

Not information available.

## 12. ECOLOGICAL INFORMATION

## 12.1. Toxicity

## Acute toxicity:

Identification	Concentration		Species	Genus
N-(3-(trimethoxysilyl)propyl)ethylenediamine	LC50 597 mg/L (96 h)		Brachydanio rerio	Fish
CAS: 1760-24-3		81 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	8.8 mg/L (72 h)	Selenastrum capricornutum	Algae
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	LC50	55000 mg/L (96 h)	QSAR	Fish
CAS: 2224-33-1		17168 mg/L (48 h)	QSAR	Fish
CA3. 2224-33-1	EC50	1429 mg/L (96 h)	QSAR	Fish



## **Chronic toxicity:**

Identification	Concentration		Species	Genus
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	NOEC	50 mg/L	Oryzias latipes	Fish
CAS: 2224-33-1	NOEC	100 mg/L	Daphnia magna	Crustacean

## 12.2. Persistence and degradability

Identification	Degradability		Biodegradability	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1760-24-3	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	39 %
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	BOD5	Non-applicable	Concentration	20 mg/L
CAS: 2224-33-1	COD	Non-applicable	Period	28 days
CA3. 2224-33-1	BOD5/COD	Non-applicable	% Biodegradable	0 %

## 12.3. Bioaccumulative potential

Identification	Bioaccumulation potential		
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	BCF 1		
CAS: 2224-33-1	Pow Log	0.6	
	Potential	Low	

## 12.4. Mobility in soil

Not available.

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

Product does not meet PBT/vPvB criteria.

### 12.2. Other adverse effects

Not described.

## 13. DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods

Code	Description	Waste class
08 04 10*	waste adhesives and sealants other than those mentioned in 08 04 09	Non-Dangerous

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

In accordance with Annex II of UK REACH the provisions related to waste management are stated: UK legislation: The Waste Regulations 2011.



## **Disposal methods**

Dispose of in accordance with local regulations.

#### 13.2. Waste class

Not applicable.

## 14.TRANSPORT INFORMATION

### 14.1. Clasification for ROAD and Rail transport (ADR/RID)

Not classified.

## 14.2. Transport by sea GGVSee/IMDG-Code

Not classified.

## 14.3. Air Transport ICAO-TI/IATA-DGR

Not classified.

## 15. REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant.

## The Control of Major Accident Hazards Regulations 2015:

Non- applicable.

# Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc.):

Shall not be used in:

- -ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- -games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Occupational exposure to respirable crystalline silica must be controlled pursuant to Directive (EU) 2019/130.

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

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



## Other legislation

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

### **16.OTHER INFORMATION**

## Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

## Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.

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

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

## **GB CLP Regulation:**

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

## **Classification procedure:**

Skin Sens. 1B: Calculation method.

#### Advice related to training:

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

## Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

BCF: Bioconcentration Factor.

CAS: Chemical Abstracts Service.

cATpE: Converted acute toxicity point estimate.

DNEL: Derived No Effect Level.

EC<sub>50</sub>: 50% of maximal Effective Concentration.

GHS: Globally Harmonized System.

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IATA: International Air Transport Association.

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in Bulk (International Bulk Chemical Code).

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

LC50: Lethal Concentration to 50 % of a test population.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level. LOEC: Lowest Observed Effect Concentration.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

SVHC: Substances of Very High Concern. vPvB: Very Persistent and Very Bioaccumulative.

## Classification abbreviations and acronyms

Acute Tox. = Acute toxicity

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Asp. Tox. = Aspiration hazard

Eye Dam. = Serious eye damage

Flam. Liq. = Flammable liquid

Repr. = Reproductive toxicity

Skin Irrit. = Skin irritation

Skin Sens. = Skin sensitisation

STOT RE = Specific target organ toxicity-repeated exposure

STOT SE = Specific target organ toxicity-single exposure

## Key literature references and sources for data

Source: European Chemicals Agency, http://echa.europa.eu/ SDS from supplier.

#### **Revision comments**

Revision date 25/03/2024 Revision

1

Supersedes date Not applicable SDS status Approved.



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