This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

# **RANGERS HARDENER 2K ANTICORROSIVE EPOXY PRIMER 1:4**

Printing: 19/04/2023 Date of compilation: 20/03/2023 Version: 1 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 **Product identifier:** RANGERS HARDENER 2K ANTICORROSIVE EPOXY PRIMER 1:4 Other means of identification: UFI: M78C-318V-300J-TF35 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant uses: Car repair; hardener for coatings. For professional users only. Uses advised against: All uses not specified in this section or in section 7.3 1.3 Details of the supplier of the safety data sheet: Troton Sp. z o.o. Ząbrowo 14A 78-120 Gościno - Zachodniopomorskie - Polska Phone: +48 94 35 123 94 - Fax: +48 94 35 126 22 troton@troton.com.pl www.troton.pl / www.troton.eu Emergency telephone number: (8am-4pm)+48 094 35 123 94; 112 1.4 SECTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture: 2.1 CLP Regulation (EC) No 1272/2008: Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008. Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412 Asp. Tox. 1: Aspiration hazard, Category 1, H304 Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 (Oral), H373 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335 2.2 Label elements: CLP Regulation (EC) No 1272/2008: Danger Hazard statements: Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour. Skin Irrit. 2: H315 - Causes skin irritation. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral). STOT SE 3: H335 - May cause respiratory irritation. **Precautionary statements:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. P302+P352: IF ON SKIN: Wash with plenty of water. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina. P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively. Supplementary information: EUH208: Contains 3,6-diazaoctanethylenediamin. May produce an allergic reaction.

- CONTINUED ON NEXT PAGE -

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

# **RANGERS HARDENER 2K ANTICORROSIVE EPOXY PRIMER 1:4**

	Substances that Xylene	contribut	ite to the class	ification					
2.3	Other hazards:								
	Product fails to me Endocrine-disrupti	,		fails to meet	the criteria.				
SEC	TION 3: COMPOS	ITION/IN	NFORMATION	on Ingrei	DIENTS				
3.1	Substance:								
	Non-applicable								
3.2	Mixture:								
3.2	Mixture: Chemical descri	<b>tion:</b> Mix	xture composed	of chemical p	products				
3.2	Chemical descri	<b>ition:</b> Mix	xture composed	of chemical p	products				
3.2	Chemical descri Components:		·			3), the product	contains:		
3.2	Chemical descri Components: In accordance with		·		2006 (point 3	· ·	contains:		Concentratio
3.2	Chemical descri Components: In accordance with Identification CAS: Non-applicable EC: 931-216-1	Annex II (	·	C) No 1907/2	2006 (point 3 Chemical nam	ne/Classification		Self-classified	Concentratio
3.2	Chemical descri Components: In accordance with Identification CAS: Non-applicable	Annex II ( Fatte quat	of Regulation (E	C) No 1907/2	2006 (point 3 Chemical nam products with	ne/Classification triethanolamine		Self-classified	
3.2	Chemical descri Components: In accordance with In accordance with CAS: Non-applicable EC: 931-216-1 Index: Non-applicable REACH: 01-2119472305 XXXX CAS: 1330-20-7	Annex II ( quat -33- Reg	of Regulation (E ty acids, C18 unsa	C) No 1907/2	2006 (point 3 Chemical nam products with	ne/Classification triethanolamine			Concentratio 50 - <75 %
3.2	Chemical descri Components: In accordance with Identification CAS: Non-applicable EC: 931-216-1 Index: Non-applicable REACH: 01-2119472305 XXXX	Annex II ( Fatti -33- Reg Xyle	of Regulation (E ty acids, C18 unsa aternized <sup>(1)</sup>	C) No 1907/2 htd., reaction p Eye Irrit. 2: H319 Acute Tox. 4: H33	2006 (point 3 Chemical nam products with ; Skin Irrit. 2: H3	ne/Classification triethanolamine		Self-classified	
3.2	Chemical descri Components: In accordance with In accordance with CAS: Non-applicable EC: 931-216-1 Index: Non-applicable REACH: 01-2119472305 XXXX CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216 XXXX CAS: 112-24-3	Annex II ( Fatty -33- Reg -32- Reg	of Regulation (E ty acids, C18 unsa aternized <sup>(1)</sup> egulation 1272/2008 ene <sup>(1)</sup>	C) No 1907/2 atd., reaction p Eye Irrit. 2: H319 Acute Tox. 4: H3: 2: H319; Flam. Li H335 - Danger	2006 (point 3 Chemical nam products with ; Skin Irrit. 2: H3	ne/Classification triethanolamine	e, di-Me sulfate-	Self-classified	50 - <75 %
3.2	Chemical descri Components: In accordance with Identification CAS: Non-applicable EC: 931-216-1 Index: Non-applicable REACH: 01-2119472305 XXXX CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216 XXXX	Annex II ( Fatt -33- -32- Reg Xyle Reg 3,6-	of Regulation (E ty acids, C18 unsa aternized <sup>(1)</sup> egulation 1272/2008 ene <sup>(1)</sup>	C) No 1907/2 <b>Itd., reaction p</b> Eye Irrit. 2: H319 Acute Tox. 4: H33 2: H319; Flam. Li H335 - Danger <b>enediamin(1)</b>	2006 (point 3 Chemical nam products with ; Skin Irrit. 2: H3 12+H332; Aquatic q. 3: H226; Skin 1	ne/Classification triethanolamine 15 - Warning : Chronic 3: H412; A Irrit. 2: H315; STOT	e, di-Me sulfate-	Self-classified it. O O O	50 - <75 %

Identification	Specific concentration limit	
	% (w/w) >=28: Skin Irrit. 2 - H315	
CAS: Non-applicable EC: 931-216-1	% (w/w) >=28: Eye Irrit. 2 - H319	

# SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product. **By inhalation:** 

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

## By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Printing: 19/04/2023 Date of compilation: 20/03/2023 Version: 1

SECT	TON 4: FIRST AID MEASURES (continued)
	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. By ingestion/aspiration:
4.2	Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest. <b>Most important symptoms and effects, both acute and delayed:</b>

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

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

Non-applicable

# SECTION 5: FIREFIGHTING MEASURES

# 5.1 Extinguishing media:

# Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

# Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

# 5.2 Special hazards arising from the substance or mixture:

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,...) in accordance with Directive 89/654/EC.

## Additional provisions:

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.

# SECTION 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. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

# For emergency responders:

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

# 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

# 6.3 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.

# 6.4 Reference to other sections:

Printing: 19/04/2023 Date of compilation: 20/03/2023 Version: 1

## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for 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

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

A.- Technical measures for storage

Minimum Temp.:15 °CMaximum Temp.:25 °CMaximum time:12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

## 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits			
Xylene	IOELV (8h)	50 ppm	221 mg/m <sup>3</sup>	
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m <sup>3</sup>	

#### DNEL (Workers):

	Short e	xposure	Long exposure		
Identification	Systemic	Local	Systemic	Local	
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	312,5 mg/kg	Non-applicable
EC: 931-216-1	Inhalation	Non-applicable	Non-applicable	44 mg/m³	Non-applicable

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

## **RANGERS HARDENER 2K ANTICORROSIVE EPOXY PRIMER 1:4**

#### Printing: 19/04/2023

Date of compilation: 20/03/2023

Version: 1

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

	Short e	xposure	Long exposure		
Identification	Systemic	Local	Systemic	Local	
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	442 mg/m <sup>3</sup>	442 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>

### DNEL (General population):

	Short e	exposure	Long exposure		
Identification	Systemic	Local	Systemic	Local	
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	Oral	Non-applicable	Non-applicable	7,5 mg/kg	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	187,5 mg/kg	Non-applicable
EC: 931-216-1	Inhalation	Non-applicable	Non-applicable	13 mg/m <sup>3</sup>	Non-applicable
Xylene	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	260 mg/m <sup>3</sup>	260 mg/m <sup>3</sup>	65,3 mg/m <sup>3</sup>	65,3 mg/m <sup>3</sup>

#### PNEC:

Identification				
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	STP	2,96 mg/L	Fresh water	0,002 mg/L
CAS: Non-applicable	Soil	0,115 mg/kg	Marine water	0 mg/L
EC: 931-216-1	Intermittent	0,019 mg/L	Sediment (Fresh water)	0,58 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,058 mg/kg
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg

### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

### C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

# **RANGERS HARDENER 2K ANTICORROSIVE EPOXY PRIMER 1:4**

	8: EXPOSURE	CONTRO	JLJ/FLNJON/			continueu)		
	Pictogram		PPE	Labelling		CEN Standard		Remarks
	Mandatory face protection		c glasses against n/projections.	CAT II	E	EN 166:2002 N ISO 4007:2018		daily and disinfect periodically according t nanufacturer 's instructions. Use if there is a risk of splashing.
E I	Body protection							
	Pictogram		PPE	Labelling		CEN Standard		Remarks
	Mandatory complete body protection				E	EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018		Limited protection against flames.
	Mandatory foot protection	antistatic	footwear with and heat resistant roperties			N ISO 13287:2020 N ISO 20345:2011	Re	eplace boots at any sign of deterioration.
F /	Additional emerge	ency meas	sures					
	Emergency mea	isure	St	andards		Emergency meas	ure	Standards
				5I Z358-1 11, ISO 3864-4:20	11	Eyewash station	15	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

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

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Annearance				
Appearance:				
Physical state at 20 °C:	Liquid			
Appearance:	Not available			
Colour:	Yellow			
Odour:	Not available			
Odour threshold:	Non-applicable *			
Volatility:				
Boiling point at atmospheric pressure:	139 °C			
Vapour pressure at 20 °C:	730 Pa			
Vapour pressure at 50 °C:	4036,86 Pa (4,04 kPa)			
Evaporation rate at 20 °C:	Non-applicable *			
Product description:				
Density at 20 °C:	1003,8 kg/m³			
Relative density at 20 °C:	1,004			
Dynamic viscosity at 20 °C:	Non-applicable *			
Kinematic viscosity at 20 °C:	Non-applicable *			
Kinematic viscosity at 40 °C:	<20,5 mm²/s			
Concentration:	Non-applicable *			
*Not relevant due to the nature of the product, not providing	ng information property of its hazards.			

- CONTINUED ON NEXT PAGE -

rinting:	: 19/04/2023	Date of compilation: 20/03/2023	Version: 1	
SECT	FION 9: PHYSIC	AL AND CHEMICAL PROPERTIES	(continued)	
	pH:		Non-applicable *	
	Vapour density at	t 20 °C:	Non-applicable *	
	Partition coefficie	nt n-octanol/water 20 °C:	Non-applicable *	
	Solubility in wate	r at 20 °C:	Non-applicable *	
	Solubility propert	ies:	Non-applicable *	
	Decomposition te	emperature:	Non-applicable *	
	Melting point/free	ezing point:	Non-applicable *	
	Flammability:			
	Flash Point:		25 °C	
	Flammability (sol	id, gas):	Non-applicable *	
	Autoignition temp	perature:	338 °C	
	Lower flammabili	ty limit:	Not available	
	Upper flammabili	ty limit:	Not available	
	Particle charac	teristics:		
	Median equivalen	t diameter:	Non-applicable	
9.2	Other informat	ion:		
	Information wi	th regard to physical hazard class	ies:	
	Explosive propert	ies:	Non-applicable *	
	Oxidising propert	ies:	Non-applicable *	
	Corrosive to meta	als:	Non-applicable *	
	Heat of combusti	on:	Non-applicable *	
	Aerosols-total per components:	rcentage (by mass) of flammable	Non-applicable *	
	Other safety ch	aracteristics:		
	Surface tension a	t 20 ºC:	Non-applicable *	
	Refraction index:		Non-applicable *	
	*Not relevant due to	the nature of the product, not providing inform	nation property of its ha	izards.

# SECTION 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:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

# **10.5** Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

# **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 ( $CO_2$ ), carbon monoxide and other organic compounds.

: 1	19/04/2023         Date of compilation: 20/03/202	3 Version: 1			
٦I	ION 11: TOXICOLOGICAL INFORMATION				
	Information on hazard classes as defined in I	Regulation (EC) No 12	272/2008:		
	The experimental information related to the toxicol	ogical properties of the	product itself is no	t available	
	Dangerous health implications:				
	In case of exposure that is repetitive, prolonged or adverse effects on health may result, depending or A- Ingestion (acute effect):			ended occupational ex	posure lir
	<ul> <li>Acute toxicity : Based on available data, the as hazardous for consumption. For more inform</li> <li>Corrosivity/Irritability: The consumption of a and vomiting.</li> </ul>	ation see section 3			
	B- Inhalation (acute effect):				
	<ul> <li>Acute toxicity : Based on available data, the as hazardous for inhalation. For more information.</li> <li>Corrosivity/Irritability: Causes irritation in respiratory passages.</li> <li>Contact with the skin and the eyes (acute effective)</li> </ul>	on see section 3. piratory passages, whic			
	<ul> <li>Contact with the skin: Produces skin inflamn</li> <li>Contact with the eyes: Produces eye damage</li> </ul>	nation.			
	D- CMR effects (carcinogenicity, mutagenicity and		:		
	<ul> <li>Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classifie as hazardous for the effects mentioned. For more information see section 3.         <ul> <li>IARC: Xylene (3)</li> <li>Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified a hazardous for this effect. For more information see section 3.</li> <li>Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified a hazardous for this effect. For more information see section 3.</li> </ul> </li> </ul>				
	<ul> <li>E- Sensitizing effects:</li> <li>Respiratory: Based on available data, the cla hazardous with sensitising effects. For more infi - Skin: Based on available data, the classificat dangerous with sensitising effects. For more infi F- Specific target organ toxicity (STOT) - single ex</li> </ul>	ormation see section 3. ion criteria are not met. formation see section 3.			
	Causes irritation in respiratory passages, which	is normally reversible a	nd limited to the up	oper respiratory passag	ges.
,	G- Specific target organ toxicity (STOT)-repeated of	exposure:			
	<ul> <li>Specific target organ toxicity (STOT)-repeated nervous system causing headache, dizziness, ver consciousness.</li> <li>Skin: Based on available data, the classificat hazardous for this effect. For more information H- Aspiration hazard:</li> </ul>	ertigo, nausea, vomiting ion criteria are not met,	, confusion, and in	serious cases, loss of	
	The consumption of a considerable dose can ca	use pulmonary damage			
,	Other information:	. , ,			
	Non-applicable				
	Specific toxicology information on the substa	inces:			
ļ					0
	Identification		Acut LD50 oral	te toxicity 2100 mg/kg	Genus Rat
	Xylene CAS: 1330-20-7		LD50 dermal	1100 mg/kg	Rat
	EC: 215-535-7		LC50 inhalation	11 mg/L (ATEi)	

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

## **RANGERS HARDENER 2K ANTICORROSIVE EPOXY PRIMER 1:4**

# Printing: 19/04/2023 Date of compilation: 20/03/2023 Version: 1

ION 11: TOXICOLOGICAL INFORMATION (continued)			
Identification	Ac	ute toxicity	Genus
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate- quaternized	LD50 oral	>2000 mg/kg	
CAS: Non-applicable	LD50 dermal	>2000 mg/kg	
EC: 931-216-1	LC50 inhalation	>20 mg/L	
3,6-diazaoctanethylenediamin	LD50 oral	2100 mg/kg	Rat
CAS: 112-24-3	LD50 dermal	1100 mg/kg	Rat
EC: 203-950-6	LC50 inhalation	>20 mg/L	

## Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	4400 mg/kg (Calculation method)	0 %
Inhalation	44 mg/L (4 h) (Calculation method)	0 %

## **11.2** Information on other hazards:

### **Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

## Other information

Non-applicable

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

# 12.1 Toxicity:

### Acute toxicity:

Identification	Concentration		Species	Genus
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	LC50	4,8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: Non-applicable	EC50	2,23 mg/L (48 h)	Daphnia magna	Crustacean
EC: 931-216-1	EC50	1,28 mg/L (72 h)	Scenedesmus subspicatus	Algae
Xylene	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 1330-20-7	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 215-535-7	EC50	>10 - 100 mg/L (72 h)		Algae
3,6-diazaoctanethylenediamin	LC50	495 mg/L (96 h)	Pimephales promelas	Fish
CAS: 112-24-3	EC50	31,1 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-950-6	EC50	Non-applicable		

#### Chronic toxicity:

Identification	Concentration		Species	Genus
Xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: 1330-20-7 EC: 215-535-7	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean

## 12.2 Persistence and degradability:

### Substance-specific information:

Identification	Degradability		Biodegradability	
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	BOD5	Non-applicable	Concentration	Non-applicable
CAS: Non-applicable	COD	Non-applicable	Period	28 days
EC: 931-216-1	BOD5/COD	Non-applicable	% Biodegradable	100 %
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %

# 12.3 Bioaccumulative potential:

Substance-specific information:



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

## **RANGERS HARDENER 2K ANTICORROSIVE EPOXY PRIMER 1:4**

Printing: 19/04/2023 Date of compilation: 20/03/2023 Version: 1

ON 12: ECOLOGICAL INFORMATION (continued)		
Identification	Bic	accumulation potential
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	BCF	104
CAS: Non-applicable	Pow Log	4.73
EC: 931-216-1	Potential	High
Xylene	BCF	9
CAS: 1330-20-7	Pow Log	2.77
EC: 215-535-7	Potential	Low

#### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Xylene	Кос	202	Henry	524,86 Pa·m <sup>3</sup> /mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes
3,6-diazaoctanethylenediamin	Кос	Non-applicable	Henry	Non-applicable
CAS: 112-24-3	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 203-950-6	Surface tension	4,307E-2 N/m (25 °C)	Moist soil	Non-applicable

# 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

#### 12.7 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

## **13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	waste paint and varnish containing organic solvents or other hazardous substances packaging containing residues of or contaminated by hazardous substances	Dangerous

#### Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP3 Flammable, HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) 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-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

### Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

Printing: 19/04/2023	Date o	of compilation: 20/03/2023	Version: 1		
SECTION 14: TRANSPORT INFORMATION (continued)					
	14.1	UN number or ID number:	UN1263		
		UN proper shipping name:	PAINT RELATED MATERIAL		
		Transport hazard class(es):	3		
	1110	Labels:	3		
	14.4	Packing group:	III		
		Environmental hazards:	No		
		Special precautions for user			
		Special regulations:	163, 367, 650		
		Tunnel restriction code:	D/E		
		Physico-Chemical properties:	see section 9		
		Limited quantities:	5 L		
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable		
Transport of dangerous goods by sea:					
With regard to IM	-				
	14.1	UN number or ID number:	UN1263		
	14.2	UN proper shipping name:	PAINT RELATED MATERIAL		
	14.3	Transport hazard class(es):	3		
		Labels:	3		
	14.4	Packing group:	III		
3	14.5	Marine pollutant:	No		
	14.6	Special precautions for user			
		Special regulations:	163, 223, 955, 367		
		EmS Codes:	F-E, S-E		
		Physico-Chemical properties:	see section 9		
		Limited quantities:	5 L		
		Segregation group:	Non-applicable		
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable		
Transport of dangerous goods by air:					
With regard to IATA/ICAO 2023:					
	14.1	UN number or ID number:	UN1263		
		UN proper shipping name:	PAINT RELATED MATERIAL		
$\langle \simeq \rangle$	14.3	Transport hazard class(es):	3		
		Labels:	3		
· · · · · · · · · · · · · · · · · · ·		Packing group:	III		
		Environmental hazards:	No		
	14.6	Special precautions for user			
		Physico-Chemical properties:	see section 9		
	14./	Maritime transport in bulk according to IMO instruments:	Non-applicable		

# SECTION 15: REGULATORY INFORMATION

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture: Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

- CONTINUED ON NEXT PAGE -



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

## **RANGERS HARDENER 2K ANTICORROSIVE EPOXY PRIMER 1:4**

Printing: 19/04/2023 Date of compilation: 20/03/2023 Version: 1 SECTION 15: REGULATORY INFORMATION (continued) REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable Seveso III: Lower-tier Upper-tier Section Description requirements requirements P5c FLAMMABLE LIQUIDS 5000 50000 Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....): Shall not be used in: and ashtravs. -tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### 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 product could be affected by sectorial legislation

## **15.2** Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

## Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

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

H315: Causes skin irritation.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

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

H304: May be fatal if swallowed and enters airways.

H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

#### 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

#### CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H312 - Harmful in contact with skin.

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

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

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

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

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

STOT SE 3: H335 - May cause respiratory irritation.

### Classification procedure:

Printing: 19/04/2023	Date of compilation: 20/03/2023	Version: 1			
SECTION 16: OTHE	R INFORMATION (continued)				
STOT SE 3: Cal Aquatic Chronic STOT RE 2: Cal Asp. Tox. 1: Cal	3: Calculation method culation method culation method lculation method (2.6.4.3)				
Advice related	l 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.					
Principal bibli	Principal bibliographical sources:				
http://echa.euro http://eur-lex.e					
Abbreviations	Abbreviations and acronyms:				
IMDG: Internation IATA: Internation ICAO: Internation COD: Chemical BOD5: 5day bion BCF: Bioconcen LD50: Lethal Don LC50: Lethal Don EC50: Effective LogPOW: Octan Koc: Partition con UFI: unique form	ose 50 ncentration 50 concentration 50 olwater partition coefficient pefficient of organic carbon	carriage of dangerous goods by road			

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.