# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 17 October 2024

Version : 2.06

use.

pPG

Ireland

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

**1.1 Product identifier** 

Product name Product code

: 000001190332

Other means of identification

00453045; 00472633; 00476980

1.2 Relevant identified uses of the substance or mixture and uses advised against				
Product use	: Professional applications, Used by spraying.			
Use of the substance/ mixture	: Hardener.			
Uses advised against	: Product is not intended, labelled or packaged for consumer u			

# 1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person : Product.Stewardship.EMEA@ppg.com

responsible for this SDS

## 1.4 Emergency telephone number

## National advisory body/Poison Centre

National Poison Information Centre at Beaumont Hospital. Tel: +353 1 8092566, email: npicdublin@beaumont.ie <u>Supplier</u>

+31 20 4075210

# **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] Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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# **SECTION 2: Hazards identification**

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

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

# 2.2 Label elements

Hazard pictograms



Signal word	:	Danger	
Hazard statements	:	<ul> <li>Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing cancer. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements			
Prevention	:	Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapour.	
Response	:	IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.	
Storage	:	Not applicable.	
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		P280, P260, P304 + P310, P301 + P310, P303 + P361 + P353, P501	
Supplemental label elements	:	Not applicable.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.	
Special packaging requiren	nen	<u>ts</u>	
Containers to be fitted with child-resistant fastenings	:	Not applicable.	
Tactile warning of danger	:	Not applicable.	
2.3 Other hazards			
Product meets the criteria for PBT or vPvB	:	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	:	Causes digestive tract burns.	

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
7,3,5-triazine-2,4,6-triamine	REACH #: 01-2119485947-16 EC: 203-615-4 CAS: 108-78-1 Index: 613-345-00-2	≥50 - ≤75	Carc. 2, H351 (oral) Repr. 2, H361f STOT RE 2, H373 (urinary system)	-	[1]
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥10 - <25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥10 - ≤22	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	ATE [Oral] = 930 mg/ kg ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1]
carbon	REACH #: 01-2119488894-16 EC: 231-153-3 CAS: 7440-44-0	≥1.0 - ≤5.0	Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
			See Section 16 for the full text of the H statements declared above.		

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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

**1** Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## SUB codes represent substances without registered CAS Numbers.

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# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.	
Inhalation	<ul> <li>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.</li> </ul>	
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>	
Ingestion	: If swallowed, seek medical advice immediately and show the 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**

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs/sy	mptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	No specific treatment

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SECTION 5: Firefight	SECTION 5: Firefighting measures				
5.1 Extinguishing media					
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.				
Unsuitable extinguishing media	None known.				
5.2 Special hazards arising f	rom the substance or mixture				
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.				
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides				
5.3 Advice for firefighters					
Special precautions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>				
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.				

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ective equipment and emergency procedures	
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	: If specialised 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".	
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.	
.3 Methods and material for containment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	

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<b>SECTION 6: Accid</b>	SECTION 6: Accidental release measures				
Large spill	upwind. Preven spillages into an spillage with nor diatomaceous e Dispose of via a	out risk. Move containers from spill are it entry into sewers, water courses, base effluent treatment plant or proceed as n-combustible, absorbent material e.g. s arth and place in container for disposal licensed waste disposal contractor. Co ame hazard as the spilt product.	ements or confined areas. Wash follows. Contain and collect sand, earth, vermiculite or according to local regulations.		
6.4 Reference to other sections	See Section 8 for	or emergency contact information. or information on appropriate personal p 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

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
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 hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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# **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
<b>m</b> -phenylenebis(methylamine)	NAOSH (Ireland, 5/2021) OELV 8 hours: 0.1 mg/m <sup>3</sup> .

**Recommended monitoring** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure procedures 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.

## **DNELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
1,3,5-triazine-2,4,6-triamine	DNEL	Long term Oral	0.42 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.5 mg/m <sup>3</sup>	General population	
	DNEL	Long term Dermal	4.2 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	8.3 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11.8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	82.3 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	117 mg/kg bw/day	Workers	Systemic
Fatty acids, C18-unsatd.,	DNEL	Long term Oral	97.2 µg/kg bw/day	General population	Systemic
dimers, oligomeric reaction		-			-
products with tall-oil fatty					
acids and triethylenetetramine					
	DNEL	Long term Dermal	97.2 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.169 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.272 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.952 mg/m <sup>3</sup>	Workers	Systemic
m-phenylenebis(methylamine)	DNEL	Long term Inhalation	0.2 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	0.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m <sup>3</sup>	Workers	Systemic
3,6-diazaoctanethylenediamin	DNEL	Long term Dermal	28 µg/cm²	Workers	Local
	DNEL	Long term Dermal	0.25 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	0.29 mg/m <sup>3</sup>	General population	
	DNEL	Long term Oral	0.41 mg/kg bw/day	General population	
	DNEL	Long term Dermal	0.43 mg/cm <sup>2</sup>	General population	
	DNEL	Long term Dermal	0.57 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	1 mg/cm <sup>2</sup>	General population	
	DNEL	Long term Inhalation	1 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	8 mg/kg bw/day	General population	
	DNEL	Short term Oral	20 mg/kg bw/day	General population	
	DNEL	Short term Inhalation	1600 mg/m³	General population	
	DNEL	Short term Inhalation	5380 mg/m <sup>3</sup>	Workers	Systemic
carbon	DNEL	Long term Inhalation	0.9 mg/m³	General population	Local
	DNEL	Long term Inhalation	1.84 mg/m³	Workers	Local
	DNEL	Long term Inhalation	2.49 mg/m <sup>3</sup>	General population	
	DNEL	Long term Inhalation	14.1 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	859 mg/kg bw/day	General population	Systemic
English (GB)			Ireland		7/17

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

PNECs				
Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall- oil fatty acids and triethylenetetramine	-	Fresh water	0.043 mg/l	Assessment Factors
	-	Marine water	0 mg/l	Assessment Factors
	-	Sewage Treatment Plant		Assessment Factors
	-		434.02 mg/kg dwt	Equilibrium Partitioning
	-		43.4 mg/kg dwt	Equilibrium Partitioning
	-	Soil	86.78 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls			
Appropriate engineering controls		If user operations generate dust, fumes, gas, vapour or mist, use process encl local exhaust ventilation or other engineering controls to keep worker exposure airborne contaminants below any recommended or statutory limits.	
Individual protection measured	res		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, a eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clo Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safet showers are close to the workstation location.	thing.
Eye/face protection	:	Chemical splash goggles and face shield. Use eye protection according to EN	166.
Skin protection			
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard sh worn at all times when handling chemical products if a risk assessment indicate is necessary. Considering the parameters specified by the glove manufacturer during use that the gloves are still retaining their protective properties. It should noted that the time to breakthrough for any glove material may be different for glove manufacturers. In the case of mixtures, consisting of several substances protection time of the gloves cannot be accurately estimated. When prolonged frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommend When only brief contact is expected, a glove with a protection class of 2 or high (breakthrough time greater than 30 minutes according to EN 374) is recommend The user must check that the final choice of type of glove selected for handling product is the most appropriate and takes into account the particular conditions as included in the user's risk assessment.	es this r, check d be different s, the d or ended. her nded. g this
Gloves	:	nitrile neoprene	
Body protection	:	Personal protective equipment for the body should be selected based on the tabeing performed and the risks involved and should be approved by a specialist handling this product.	
Other skin protection		Appropriate footwear and any additional skin protection measures should be see based on the task being performed and the risks involved and should be appro a specialist before handling this product.	
Respiratory protection	:	Respirator selection must be based on known or anticipated exposure levels, thazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed recomplying with an approved standard if a risk assessment indicates this is nece Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) a particulate filter P3	f e espirator essary.
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# **SECTION 8: Exposure controls/personal protection**

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **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

<u>Appearance</u>									
Physical state	1	Liquid.							
Colour	:	Grey.							
Odour	:	Amine-like. [Slight]							
Melting point/freezing point	1	Not determined.							
Boiling point or initial boiling point and boiling range	:	>37.78°C							
Flammability		Not determined. The	ere are no	data ava	ilable or	n the mixtu	ure it	self.	
Lower and upper explosion limit	:	Not available.							
Flash point	:	Closed cup: 119°C							
Auto-ignition temperature	1								
		Ingredient name		°C	•	°F	N	lethod	
		carbon		<200	<	392			
Decomposition temperature	:	Stable under recomr	mended st	orage ar	nd handl	ing condit	ions	(see Sect	tion 7).
рН	1	Not applicable. insol	uble in wa	ter.					
Viscosity	:	Øynamic (room temp Kinematic (room tem Kinematic (40°C): ≥2	nperature)						
Viscosity	:	> 100 s (ISO 6mm)							
Solubility	:								
Media		Result							
cold water		Not soluble							
Partition coefficient n-octanol/ water (log Pow)	:	Not applicable.							
Vapour pressure	:		Vapou	Ir Press	ure at 2	D°C	Vapo	our press	sure at 50°C
		Ingredient name	mm Hg	kPa	Metho	od mi Hg		kPa	Method
		carbon	<0.1	<0.013					
Relative density	:	1.28						•	•
Particle characteristics									
Median particle size	:	Not applicable.							
9.2 Other information									
9.2.1 Information with regard to	o ph	ysical hazard class	es						
Explosive properties	:	The product itself is vapour or dust with a			the form	ation of a	n exp	olosible m	ixture of
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# **SECTION 9: Physical and chemical properties**

Oxidising properties

: Product does not present an oxidizing hazard.

No additional information.

# **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	: The product is stable.
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. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides

# SECTION 11: Toxicological information

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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility. Suspected of damaging the unborn child.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

# Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,3,5-triazine-2,4,6-triamine	LC50 Inhalation Dusts and mists	Rat	>5190 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	3161 mg/kg	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	_
m-phenylenebis(methylamine)	LC50 Inhalation Gas. LD50 Dermal	Rat Rat - Male, Female	700 ppm >3100 mg/kg	1 hours -
	LD50 Oral	Rat	930 mg/kg	_
3,6-diazaoctanethylenediamin	LD50 Dermal LD50 Oral	Rabbit	1465 mg/kg 1716 mg/kg	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-1-amide)	mists		5	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

## Acute toxicity estimates

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# **SECTION 11: Toxicological information**

Route	ATE value	
Dermal	5273.83 mg/kg 67271.88 mg/kg 27348.97 ppm	

# **Conclusion/Summary**

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

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
m-phenylenebis(methylamine)	Skin - Irritant Skin - Severe irritant	Human Rat	-	- 4 hours	- 4 hours

#### **Conclusion/Summary**

- Skin
- Eyes

Respiratory

- : Causes severe burns.
- : Zauses serious eye damage.
  - : Based on available data, the classification criteria are not met.

# **Respiratory or skin sensitization**

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
m-phenylenebis(methylamine) 3,6-diazaoctanethylenediamin	skin skin	Mouse Guinea pig	Sensitising Sensitising

## **Conclusion/Summary**

Skin

- : May cause an allergic skin reaction.
- Respiratory
- : Based on available data, the classification criteria are not met.

# **Mutagenicity**

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

# Carcinogenicity

Suspected of causing cancer.

# **Reproductive toxicity**

Suspected of damaging fertility. Suspected of damaging the unborn child.

# Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
carbon	Category 3	-	Respiratory tract irritation

**Conclusion/Summary** 

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

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1,3,5-triazine-2,4,6-triamine	Category 2	-	urinary system

# **Conclusion/Summary**

 $\overline{M}$ ay cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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Code : 000001190332 STEELGUARD 951 HARDENE	
SECTION 11: Toxicol	logical information
	classification criteria are not met.
·····, ···	
Information on likely routes of exposure	: Not available.
Potential acute health effect	<u>ts</u>
Inhalation	: No known significant effects or critical hazards.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	ects as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
•	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
	: No known significant effects or critical hazards.
Potential chronic health effe	
General	<ul> <li>May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very lo levels.</li> </ul>
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility.

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# **SECTION 11: Toxicological information**

Causes digestive tract burns. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

#### 11.2 Information on other hazards

#### **11.2.1 Endocrine disrupting properties**

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

11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
1,3,5-triazine-2,4,6-triamine Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Acute EC50 200 mg/l EC10 1.78 mg/l	Daphnia Algae	48 hours 72 hours
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella	72 hours
	Acute EC50 94 mg/l	subcapitata Daphnia - Daphnia magna	48 hours

**Conclusion/Summary** : Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	63 % - 28 days		-	-
Product/ingredient name		Aquatic half-life	Photo	olysis	Biodegradability
Fatty acids, C18-unsatd., dime reaction products with tall-oil f triethylenetetramine		-	-		Not readily
N,N'-ethane-1,2-diylbis(12-hyd 1-amide)	droxyoctadecan-	-	-		Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,3,5-triazine-2,4,6-triamine m-phenylenebis(methylamine) 3,6-diazaoctanethylenediamin N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	-1.22 0.18 -1.66 to -1.4 >6	3.8 2.69 - -	Low Low Low High

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# **SECTION 12: Ecological information**

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 Endocrine disrupting properties

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

## 12.7 Other adverse effects

No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

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).

## **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised 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	· ·

## Hazardous waste

#### European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

## Packaging

Methods of disposal

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

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06 mixed packaging	
Special precautions	taken when h Empty contai	and its container must be disposed of in a safe way. Care should be andling emptied containers that have not been cleaned or rinsed out. ners or liners may retain some product residues. Avoid dispersal of spilt runoff and contact with soil, waterways, drains and sewers.

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# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3066	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	Ш	Ш	II	II
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

## **Additional information**

ADR/RID	: None identified.		
Tunnel code	: (E)		
ADN	: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.		
IMDG	: None identified.		
IATA	: None identified.		
14.6 Special precuser	autions 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 Maritime transport in : Not applicable. bulk according to IMO

## instruments

# **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)

# Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

# Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for human health	melamine	Candidate	D(2022) 9120-DC	1/17/2023
Substance of equivalent concern for environment	melamine	Candidate	D(2022) 9120-DC	1/17/2023

I	English (GB)	Ireland	15/17

Code : 000001190332 Date of issue/Date of revision : 17 October 2024 **STEELGUARD 951 HARDENER BLACK** SECTION 15: Regulatory information Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Entry Number (REACH) **Product/ingredient name** STEELGUARD 951 HARDENER BLACK 3 Labelling : Not applicable. **Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

VOC for Ready-for-Use
 IIA/j. Two-pack reactive performance coatings for specific end use such as floors. EU limit values: 500 g/l (2010.)
 This product contains a maximum of 500 g/l VOC.

## **Seveso Directive**

This product is not controlled under the Seveso Directive.

**15.2 Chemical safety** : No Chemical Safety Assessment has been carried out.

assessment

# **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]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

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

Classification	Justification
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 2, H351	Calculation method
Repr. 2, H361f	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

Conforms to Regulation (EC) No.	1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
2020/878	

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction.	
Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation.	
Causes severe skin burns and eye damage. Causes skin irritation.	
Causes skin irritation.	
May cause an allergic skin reaction.	
Causes serious eye damage.	
Causes serious eye irritation.	
Harmful if inhaled.	
May cause respiratory irritation.	
Suspected of causing cancer.	
Suspected of damaging fertility.	
May cause damage to organs through prolonged or repeated	
exposure.	
Toxic to aquatic life with long lasting effects.	
Harmful to aquatic life with long lasting effects.	
Corrosive to the respiratory tract.	
ACUTE TOXICITY - Category 4	
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
CARCINOGENICITY - Category 2	
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
REPRODUCTIVE TOXICITY - Category 2	
SKIN CORROSION/IRRITATION - Category 1B	
SKIN CORROSION/IRRITATION - Category 2	
SKIN SENSITISATION - Category 1	
SKIN SENSITISATION - Category 1A	
SKIN SENSITISATION - Category 1B	
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	
Category 2	
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -	
Category 3	
Category 3	

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## **Disclaimer**

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