SAFETY DATA SHEET

Date of issue/Date of revision

: 21 October 2023

Version

: 21.01





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

1.1 Product identifier	
Product name	: AMERCOAT 385 HARDENER
Product code	: 00280711
Other means of identificat	tion
Not available.	
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
1.2 Relevant identified uses Product use	s of the substance or mixture and uses advised against : Professional applications, Used by spraying.
	•

1.3 Details of the supplier of the safety data sheet

Varossieau Suriname NV, Mastanaweg 4, Paramaribo, SURINAME Tel: 00597 484447 Fax: 00597 483785	
e-mail address of person responsible for this SDS	: Product.Stewardship.EMEA@ppg.com
1.4 Emergency telephone number	: 0031 (0)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] Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

2.2 Label elements

Code : 00280711 AMERCOAT 385 HARDENER	Date of issue/Date of revision: 21 October 2023R	
SECTION 2: Hazards	identification	
Hazard pictograms		
Signal word	: Danger	
Hazard statements	 Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects. 	
Precautionary statements		
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.	
Response	: Collect spillage.	
Storage	: Store in a well-ventilated place. Keep container tightly closed.	
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P403 + P233, P501 	
Hazardous ingredients	 xylene Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Hydrocarbons, C9, aromatics > 0.1% cumene 4-nonylphenol, branched Amines, polyethylenepoly-, triethylenetetramine fraction 	
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 requirem	ients	
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 vPv	
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.	
	May cause endocrine disruption.	

Code : 00280711 AMERCOAT 385 HARDENER Date of issue/Date of revision

: 21 October 2023

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₩ylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
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]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥5.0 - <10	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10% EUH066: C ≥ 20%	[1]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≥5.0 - ≤10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
Amines, polyethylenepoly-, triethylenetetramine fraction	REACH #: 01-2119487919-13 EC: 292-588-2 CAS: 90640-67-8	<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1]

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.

English (GB)
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Code

: 00280711 AMERCOAT 385 HARDENER Date of issue/Date of revision

: 21 October 2023

SECTION 3: Composition/information on ingredients

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and pxylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description	of first aid measures	
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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	: 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.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
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

	English (GB) Suriname 4	1/19
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations	
Eye contact	: Adverse symptoms may include the following: pain watering redness	
<u>Over-exposure signs/syn</u>	<u>ptoms</u>	
Ingestion	: Corrosive to the digestive tract. Causes burns.	
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.	
Inhalation	: May cause respiratory irritation.	
Eye contact	: Causes serious eye damage.	
Potential acute health eff	e <u>cts</u>	

Code : 00280711 AMERCOAT 385 HARDENER	Date of issue/Date of revision: 21 October 2023
SECTION 4: First aid	measures
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	: 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.
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising fi	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. Ir a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic 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

Special precautions for fire-fighters	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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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	tective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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".

Code: 00280711Date of issue/Date of revision: 21 October 2023AMERCOAT 385 HARDENER

SECTION 6: Accidental release measures

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. Collect spillage.
6.3 Methods and material fo	or containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	history of skin sensitiza this product is used. A exposure during pregn and understood. Do n mist. Do not ingest. A ventilation. Wear appr storage areas and con container or an approv closed when not in use ignition source. Use e handling) equipment.	ation problems should n void exposure - obtain s ancy. Do not handle un ot get in eyes or on skin void release to the envi opriate respirator when fined spaces unless add ed alternative made from a Store and use away f explosion-proof electrical Use only non-sparking t scharges. Empty conta	ent (see Section 8). Persons w ot be employed in any process special instructions before use. til all safety precautions have b or clothing. Do not breathe va ronment. Use only with adequa ventilation is inadequate. Do n equately ventilated. Keep in the m a compatible material, kept ti rom heat, sparks, open flame o (ventilating, lighting and materi ools. Take precautionary meas iners retain product residue and	in which Avoid peen read pour or ate ot enter original ightly or any other ial sures
Advice on general occupational hygiene	handled, stored and pr drinking and smoking.	ocessed. Workers sho Remove contaminated	ited in areas where this materia uld wash hands and face before clothing and protective equipm additional information on hygier	e eating, ient before
7.2 Conditions for safe storage, including any incompatibilities	with local regulations. container protected fro from incompatible mat Eliminate all ignition so closed and sealed unti carefully resealed and containers. Use appro	Store in a segregated a m direct sunlight in a dr erials (see Section 10) a purces. Separate from c I ready for use. Contain kept upright to prevent	o 35°C (32 to 95°F). Store in ac and approved area. Store in orig y, cool and well-ventilated area and food and drink. Store locke oxidising materials. Keep conta ters that have been opened mu leakage. Do not store in unlabe void environmental contamination andling or use.	ginal , away ed up. iiner tightly st be elled
	Er	alish (GB)	Suriname	6/19

Code : 00280711 AMERCOAT 385 HARDENER Date of issue/Date of revision

: 21 October 2023

SECTION 7: Handling and storage

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
-	Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.
,	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
x ylene	DNEL	Short term Inhalation	260 mg/m ³	General	Systemic
	DNEL	Short term Inhalation	260 mg/m³	population General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Long term Oral	12.5 mg/kg bw/day		Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
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ode : 00280711		Date of issue	/Date of revision	: 21 Oc	tober 2023
MERCOAT 385 HARDENER					
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
Fatty acids, C18-unsatd., dimers,	DNEL	Long term Oral	0.56 mg/kg bw/day	General	Systemic
oligomeric reaction products with tall- oil fatty acids and triethylenetetramine				population	
	DNEL	Long term Dermal	0.56 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.97 mg/m³	General population	Systemic
	DNEL	Long term Dermal	1.1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.9 mg/m ³	Workers	Systemic
Hydrocarbons, C9, aromatics > 0.1% cumene	DNEL	Long term Inhalation	150 mg/m ³	Workers	Systemic
cumene	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemi
	DNEL	Long term Inhalation	32 mg/m^3	General	Systemi
	DINLL	Long term initialation	52 mg/m	population	Oysterni
	DNEL	Long term Dermal	11 mg/kg bw/day	General	Systemi
	DNEL	Long term Oral	11 mg/kg bw/day	General	Systemi
4-nonylphenol, branched	DNEL	Long term Oral	0.08 mg/kg bw/day	General	Systemic
	DNEL	Short term Oral	0.4 mg/kg bw/day	General	Systemic
	DNEL	Long term Inhalation	0.4 mg/m³	General	Systemic
	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	0.8 mg/m ³	General	Systemic
	DNEL	Short term Inhalation	1 mg/m³	Workers	Systemi
	DNEL	Long term Dermal	3.8 mg/kg bw/day	General	Systemi
	DNEL	Long term Dermal	7.5 mg/kg bw/day	Workers	Systemi
	DNEL	Short term Dermal	7.6 mg/kg bw/day	General	Systemi
	DNEL	Short term Dermal	15 mg/kg bw/day	Workers	Systemi
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General	Systemi
	DNEL	Long term Inhalation	15 mg/m³	General	Systemi
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemi
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemi
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemi
Amines, polyethylenepoly-,	DNEL	Long term Inhalation	0.096 mg/m ³	General	Systemi
triethylenetetramine fraction				population	
,	DNEL	Long term Oral	0.14 mg/kg bw/day	General	Systemic

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English (GB)

Code: 00280711Date of issue/Date of revision: 21 October 2023AMERCOAT 385 HARDENER

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
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	3.84 mg/l	Assessment Factors
	-	Fresh water sediment	434.02 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	43.4 mg/kg dwt	Equilibrium Partitioning
	-	Soil	86.78 mg/kg dwt	Equilibrium Partitioning
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 mg/kg	-

8.2 Exposure controls Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	ures	
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.
Eye/face protection	:	Chemical splash goggles and face shield.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	:	butyl rubber

Code : 00280711	Date of issue/Date of revision: 21 October 2023
AMERCOAT 385 HARDENER	
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards 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 respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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	:	Liquid.							
Colour	:	Colourless.							
Odour	:	Amine-like.							
Odour threshold	:	Not available.	lot available.						
Melting point/freezing point	:	lay start to solidify at the following temperature: <-7°C (<19.4°F) This is based on ata for the following ingredient: 4-nonylphenol, branched. Weighted average: 67.75°C (-90°F)							
Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	Not available.							
Upper/lower flammability or explosive limits	-	Greatest known range: Lower: light aromatic)	1.4% Uppe	r: 7.6% (Solv	vent naphtha (petroleum),				
Flash point	:	Closed cup: 34°C							
Auto-ignition temperature	:	Ingredient name	°C	°F	Method				
		4-nonylphenol, branched	372	701.6	ASTM E 659				
			1						
Decomposition temperature	:	Stable under recommended sto	orage and h	andling cond	itions (see Section 7).				
	- :	Stable under recommended sto Not applicable. insoluble in wat	•	andling cond	itions (see Section 7).				
рН	:		•	andling cond	itions (see Section 7).				
pH Viscosity	:	Not applicable. insoluble in wat	•	andling cond	itions (see Section 7).				
Decomposition temperature pH Viscosity Solubility(ies) Media	: : :	Not applicable. insoluble in wat	•	andling cond	itions (see Section 7).				
pH Viscosity Solubility(ies)	: :	Not applicable. insoluble in wat Kinematic (40°C): >21 mm²/s	•	andling cond	itions (see Section 7).				
pH Viscosity Solubility(ies) Media	:	Not applicable. insoluble in wat Kinematic (40°C): >21 mm²/s Result Not soluble	•	andling cond	itions (see Section 7).				

Code	: 00280711	Date of issue/Date of revision	: 21 October 2023
AMERCOAT	385 HARDENER		

SECTION 9: Physical and chemical properties

		Ingredient name	Vapou	Vapour Pressure at 20°C		Vapour pressure at 50		
			mm Hg	kPa	Method	mm Hg	kPa	Method
		ethylbenzene	9.3	1.2				
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (eth	nylbenz	ene) Weighted	d average	e: 0.78co	mpared with
Relative density	:	1.36						
Vapour density	:	Highest known value 4.69 (Air = 1)	e: 7.59 (A	r = 1)(4-nonylphenol	, branche	ed). Weig	phted averag
Explosive properties	:	The product itself is vapour or dust with			the formation	of an exp	olosible m	nixture of
Oxidising properties	:	Product does not pro	esent an o	xidizing	hazard.			
Particle characteristics								

9.2 Other information

No additional information.

SECTION 10: Stabilit	y 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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Fatty acids, C18-unsatd., dimers,	LD50 Dermal	Rat	>2000 mg/kg	-
oligomeric reaction products with tall-oil				
fatty acids and triethylenetetramine				
	LD50 Oral	Rat	>2000 mg/kg	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
Cumene	LD50 Oral	Rat -	3492 mg/kg	-
		Female	3.3	
<u>.</u>	English (GB)	Su	riname	11/19

 Code
 <th::00280711</th>
 Date of issue/Date of revision
 : 21 October 2023

 AMERCOAT 385 HARDENER
 SECTION 11: Toxicological information
 : 21 October 2023

-	-			
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Amines, polyethylenepoly-,	LD50 Dermal	Rabbit	1465 mg/kg	-
triethylenetetramine fraction				
,	LD50 Oral	Rat	1716 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	

Conclusion/Summary : There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Human	-	-	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-

Conclusion/Summary

Skin	: There are no
Eves	: There are no

- There are no data available on the mixture itself.
- : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

Sensitisation

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

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	city (single exposure)

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
₩ylene Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3 Category 3 Category 3		Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

English (GB)
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Code : 00280711	Date of issue/Date of revision	: 21 October 2023
AMERCOAT 385 HARDENER		

SECTION 11: Toxicological information

SECTION 11: Toxicol	logical information		
Product/i	ngredient name	Result	
₩ylene Hydrocarbons, C9, aromatics ethylbenzene	s > 0.1% cumene	ASPIRATION HAZARD - Categor ASPIRATION HAZARD - Categor ASPIRATION HAZARD - Categor	ý 1
Information on likely routes of exposure	: Not available.		
Potential acute health effect	t <u>s</u>		
Inhalation	: May cause respiratory irritation	٦.	
Ingestion	: Corrosive to the digestive trac	t. Causes burns.	
Skin contact	: Causes severe burns. Defatti	ng to the skin. May cause an allergic sk	in reaction.
Eye contact	: Causes serious eye damage.		
Symptoms related to the ph	ysical, chemical and toxicologic	cal characteristics	
Inhalation	: Adverse symptoms may includ respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations	de the following:	
Ingestion	: Adverse symptoms may inclue stomach pains reduced foetal weight increase in foetal deaths skeletal malformations	de the following:	
Skin contact	: Adverse symptoms may includ pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	de the following:	
Eye contact	: Adverse symptoms may inclue pain watering redness	de the following:	
Delayed and immediate effe	cts as well as chronic effects fr	om short and long-term exposure	
Short term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Long term exposure Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	ects		
Not available.			
Conclusion/Summary	: Not available.		
General		t can defat the skin and lead to irritation, severe allergic reaction may occur whe	
	English (GB) Suriname	13/19

Conforms 2020/878	to Regulation (EC) N	o. 1907/2006 (REACH), Annex II, as amended by Commission	n Regulation (EU)
Code	: 00280711	Date of issue/Date of revision	: 21 October 2023

AMERCOAT 385 HARDENER

SECTION 11: Toxicological information

Carcinogenicity

: No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. **Reproductive toxicity**

: Not available.

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

Other information

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l	Daphnia	48 hours
	LC50 9.2 mg/l	Fish	96 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - <i>Moina macrocopa</i>	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Amines, polyethylenepoly-, triethylenetetramine fraction	Acute EC50 20 mg/l	Aquatic plants - Daphnia magna	72 hours
	Acute EC50 31.1 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 330 mg/l	Fish - Pimephales promelas	96 hours
	Acute NOEC 2.5 mg/l	Crustaceans	72 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C9, aromatics > 0.1% cumene	-	75 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

Conclusion/Summary

: There are no data available on the mixture itself.

Code	: 00280711	Date of issue/Date of revision	: 21 October 2023
AMERCOAT	385 HARDENER		

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
x ylene	-	-	Readily
Fatty acids, C18-unsatd., dimers, oligomeric	-	-	Not readily
reaction products with tall-oil fatty acids and			
triethylenetetramine			
Hydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
xylene 4-nonylphenol, branched ethylbenzene Amines, polyethylenepoly-, triethylenetetramine fraction	3.12 5.4 3.6 -2.65	7.4 to 18.5 251.19 79.43 -	Low Low Low Low	

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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

May cause endocrine disruption.

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	: Yes.
European waste catalog	lue (EWC)

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

Packaging

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

Code : 00280711	Date of issue/Date of revision	: 21 October 2023
AMERCOAT 385 HARDENER		

SECTION 13: Disposal considerations

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	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.	

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3470	UN3470	UN3470
14.2 UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
14.3 Transport hazard class(es)	8 (3)	8 (3)	8 (3)
14.4 Packing group	II	11	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Polyamide, 4-nonylphenol, branched)	Not applicable.

Additional information

ADR/RID IMDG IATA	≤5 kg. IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	
14.6 Special pred user	ons for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
14.7 Transport ir according to IMC instruments	k : Not applicable.	

Code: 00280711Date of issue/Date of revision: 21 October 2023AMERCOAT 385 HARDENER

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
Indocrine disrupting properties for environment	4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	Candidate	ED/169/2012	12/19/2012

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other national and international regulations.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria	
Category	
P5c E1	

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
Burner de la construction de la construction	a the sheet first terms and term to Describe (EQ) No. 4070/0000 FOLD(0101

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

Code: 00280711Date of issue/Date of revision: 2

AMERCOAT 385 HARDENER

: 21 October 2023

SECTION 16: Other information

Classification		Justification	
Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method	
Full text of abbreviated H statements	H226Flammable liquidH302Harmful if swalldH304May be fatal if swalldH304May be fatal if swalldH312Harmful in contaH314Causes severe sH315Causes skin irritH317May cause an alH318Causes seriousH319Causes seriousH332Harmful if inhaleH335May cause respH361Suspected of daH373May cause damsH400Very toxic to aquH410Very toxic to aquaticH412Harmful to aqua	if swallowed and enters airways. ontact with skin. re skin burns and eye damage. irritation. n allergic skin reaction. us eye damage. us eye damage. us eye irritation. haled. espiratory irritation. rowsiness or dizziness. ancer. f damaging fertility. Suspected of damaging the unborn child. amage to organs through prolonged or repeated exposure. aquatic life. aquatic life with long lasting effects. atic life with long lasting effects. quatic life with long lasting effects.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 1B Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 1 SKIN CORROSION/IRRITATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
<u>History</u> Date of issue/ Date of	: 21 October 2023		
revision			
	: 27 January 2023		
revision Date of previous issue Prepared by	: 27 January 2023 : EHS		

English (GB)

Code : 00280711

Date of issue/Date of revision

: 21 October 2023

AMERCOAT 385 HARDENER

SECTION 16: Other information

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