SAFETY DATA SHEET

Date of issue/Date of revision

: 12 June 2024 Version

Qatar



: 3.02

undertaking **1.1 Product identifier Product name** : AMERCOAT 450 S HARDENER **Product code** : 00280900 Other means of identification Not available. 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/ : Coating. mixture : Product is not intended, labelled or packaged for consumer use. **Uses advised against** 1.3 Details of the supplier of the safety data sheet Sigma Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 3100 Fax: 00966 138471734 e-mail address of person : ndpic@sfda.gov.sa responsible for this SDS

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

1.4 Emergency telephone : 00966 138473100 extn 1001 number

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. 2, H225 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412 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 : 00280900	Date of issue/Date of revision : 12 June 2024
AMERCOAT 450 S HARDENE	R
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breather vapour.
Response	: Get medical advice/attention if you feel unwell.
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, P260, P314, P403 + P233, P501
Hazardous ingredients	 Rexamethylene diisocyanate, oligomerisation product (Biuret type) ethylbenzene xylene hexamethylene-di-isocyanate
Supplemental label elements	: Contains isocyanates. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: As from August 24 2023 adequate training is required before industrial or professional use.
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 vPvl
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Code

AMERCOAT 450 S HARDENER

: 00280900

Date of issue/Date of revision

: 12 June 2024

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
✓examethylene diisocyanate, oligomerisation product (Biuret type)	REACH #: 01-2119970543-34 EC: 500-060-2 CAS: 28182-81-2	≥25 - ≤50	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥25 - ≤50	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]
xylene	REACH #: 01-2119488216-32 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]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
hexamethylene-di- isocyanate	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	<0.50	Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 710 mg/ kg ATE [Inhalation (vapours)] = 0.151 mg/ I Resp. Sens. 1, H334: $C \ge 0.5\%$ Skin Sens. 1, H317: C $\ge 0.5\%$	[1] [2]
			See Section 16 for the full text of the H statements declared above.	- 0.070	

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.

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 p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

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.

English (GB)

Code: 00280900Date of issue/Date of revision: 12 June 2024AMERCOAT 450 S HARDENER

SECTION 4: First aid measures

4.1 Description of first aid m	neasures and the second s
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
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

4.2 most important symp	toms and enects, beth deute and delayed
Potential acute health e	effects
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sy</u>	<u>/mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any imn	nediate 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: Firefighting 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 from the substance or mixture

Code: 00280900Date of issue/Date of revision: 12 June 2024AMERCOAT 450 S HARDENER

SECTION 5: Firefighting measures

v	-
Hazards from the substance or mixture	: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In 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 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 Cyanate and isocyanate. hydrogen cyanide
5.3 Advice for firefighters	
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	ote	ctive 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. Avoid breathing 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.
6.3 Methods and material for	со	ntainment 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.

Code: 00280900Date of issue/Date of revision: 12 June 2024

AMERCOAT 450 S HARDENER

SECTION 6: Accidental release measures

Special provisions	: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.4 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	: 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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurisation.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Code: 00280900Date of issue/Date of revision: 12 June 2024AMERCOAT 450 S HARDENER

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

Occupation	nal expos	<u>ure limits</u>

No exposure limit value known.

		English (GB)	Qatar	7/15
Other skin protection	:	Appropriate footwear and any additional skin probased on the task being performed and the risks specialist before handling this product.		
Body protection	:	Personal protective equipment for the body show performed and the risks involved and should be handling this product. When there is a risk of ig static protective clothing. For the greatest prote should include anti-static overalls, boots and glo 1149 for further information on material and des	approved by a specialist before inition from static electricity, wea oction from static discharges, clo oves. Refer to European Standa	e ar anti- othing ard EN
Gloves	÷	butyl rubber		
Skin protection Hand protection		Chemical-resistant, impervious gloves complyin worn at all times when handling chemical product necessary. Considering the parameters specified during use that the gloves are still retaining their noted that the time to breakthrough for any glove glove manufacturers. In the case of mixtures, c protection time of the gloves cannot be accurate frequently repeated contact may occur, a glove (breakthrough time greater than 480 minutes ac When only brief contact is expected, a glove wit (breakthrough time greater than 30 minutes acc The user must check that the final choice of type product is the most appropriate and takes into a as included in the user's risk assessment.	cts if a risk assessment indicate ed by the glove manufacturer, c protective properties. It should e material may be different for c consisting of several substances ely estimated. When prolonged with a protection class of 6 ccording to EN 374) is recommen h a protection class of 2 or high cording to EN 374) is recommen e of glove selected for handling	es this is heck d be different s, the or ended. er ided. this
Hygiene measures Eye/face protection		Wash hands, forearms and face thoroughly afte eating, smoking and using the lavatory and at th Appropriate techniques should be used to remo Contaminated work clothing should not be allow contaminated clothing before reusing. Ensure the showers are close to the workstation location. Chemical splash goggles.	ne end of the working period. ve potentially contaminated clot ved out of the workplace. Wash	hing.
Individual protection measure		-		
Appropriate engineering controls	:	Use only with adequate ventilation. Use process other engineering controls to keep worker expose recommended or statutory limits. The engineer vapour or dust concentrations below any lower eventilation equipment.	sure to airborne contaminants b ing controls also need to keep g	elow any jas,
8.2 Exposure controls				
Recommended monitoring procedures	:	Reference should be made to monitoring standard Standard EN 689 (Workplace atmospheres - Gu by inhalation to chemical agents for comparison strategy) European Standard EN 14042 (Workp application and use of procedures for the assess biological agents) European Standard EN 482 (requirements for the performance of procedures agents) Reference to national guidance docume of hazardous substances will also be required.	uidance for the assessment of e with limit values and measurer blace atmospheres - Guide for t sment of exposure to chemical (Workplace atmospheres - Gen s for the measurement of chemi	exposure nent he and eral ical
•	:	Standard EN 689 (Workplace atmospheres - Gu	uidance for the assessment of e	xpos

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 00280900 Date of issue/Date of revision : 12 June 2024 AMERCOAT 450 S HARDENER **Respiratory protection** 2 **Restrictions on use** : Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. : Emissions from ventilation or work process equipment should be checked to ensure **Environmental exposure** they comply with the requirements of environmental protection legislation. In some controls 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	:	Not available.	Not available.						
Odour	:	Characteristic.							
Odour threshold	:	Not available.							
Melting point/freezing point	:	May start to solidify at the following temperature: -51.3 to -28.4°C (-60.3 to -19.1°F) This is based on data for the following ingredient: Hexamethylene diisocyanate, oligomers (Biuret type). Weighted average: -65.8°C (-86.4°F)							
Initial boiling point and boiling range	1	>37.78°C							
Flammability	:	Not available.							
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	0.8% Uj	pper: 6	5.7% (x	ylene)		
Flash point	:	Closed cup: 20°C							
Auto-ignition temperature	:	Ingredient name		°C		°F		Method	
		2-methoxy-1-methylethyl	acetate	333		631.4	[DIN 51794	
Decomposition temperature	:	Stable under recomm	nended st	orage an	d hand	lling co	nditions	s (see Sec	tion 7).
рН	÷	Not applicable. insolu		ter.					
Viscosity	÷	Kinematic (40°C): >2	1 mm²/s						
Solubility(ies)	1	1							
Media		Result							
<mark>¢</mark> ∕old water		Not soluble							
Partition coefficient: n-octanol/ water	:	Not applicable.							
Vapour pressure	;	Ingradient nome	Vapoι	ır Pressı	ure at :	20°C	Vap	our pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Meth	od	mm Hg	kPa	Method
		ethylbenzene	9.30076	1.2					
Evaporation rate	:	Highest known value butyl acetate	: 0.84 (eth	lylbenzer	he) W	eighted	averag	je: 0.81co	mpared with
Relative density	:	0.99							
Vapour density	;	Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.84 (Air = 1)							
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.							
Oxidising properties	:	Product does not pre	sent an o	xidizing h	nazard.				
Particle characteristics				-					

Code : 00280900 AMERCOAT 450 S HARDENE	Date of issue/Date of revision : 12 June 2024 ER
SECTION 9: Physica	I and chemical properties
Median particle size	: Not applicable.
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	: In a fire, hazardous decomposition products may be produced.
	Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water Uncontrolled exothermic reactions occur with amines and alcohols.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
✓examethylene diisocyanate, oligomers (Biuret type)	LD50 Dermal	Rat	>15800 mg/kg	-
	LD50 Oral	Rat	>5000 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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapour	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
hexamethylene-di-isocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours
	LC50 Inhalation Vapour	Rat	151 mg/m³	4 hours
	LD50 Dermal	Rabbit	0.57 g/kg	-
	LD50 Oral	Rat	0.71 g/kg	-

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

Irritation/Corrosion

Product/ingredient name Result		Result	Species	Score	Exposure	Observation
Kylene Skin - M		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary						
Skin : There are no data available on the mixture itself.						
Eyes	yes : There are no data available on the mixture itself.					

English	(GB)
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Code : 00280900	Date of issue/Date of revision	: 12 June 2024
AMERCOAT 450 S HARDENER		

SECTION 11: Toxicological information

Respiratory	: There are no data available on the mixture itself.				
Sensitisation					
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 toxicity (single exposure)					

Product/ingredient name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomerisation product (Biuret type)	Category 3	-	Respiratory tract irritation
xylene 2-methoxy-1-methylethyl acetate	Category 3 Category 3		Respiratory tract irritation Narcotic effects
hexamethylene-di-isocyanate	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result		
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		

Information on likely : Not available.

routes of exposure

Potential acute health effects Inhalation : Harmful if inhaled. May cause respiratory irritation. Ingestion : No known significant effects or critical hazards. Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. : Causes serious eye irritation. Eye contact Symptoms related to the physical, chemical and toxicological characteristics Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing Ingestion : No specific data. Skin contact : Adverse symptoms may include the following: irritation redness dryness cracking

Code: 00280900Date of issue/Date of revision: 12 June 2024AMERCOAT 450 S HARDENER

SECTION 11: Toxicological information

	gical mornation
:	Adverse symptoms may include the following: pain or irritation
	watering redness
- 4 -	
CIS	as well as chronic effects from short and long-term exposure
-	Not available.
:	Not available.
:	Not available.
:	Not available.
ect	<u>S</u>
:	Not available.
:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
:	No known significant effects or critical hazards.
:	Not available.
	: : : : : : : : : : : : : : : : : : :

Prolonged or repeated contact may dry skin and cause irritation. 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. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. 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
Rexamethylene diisocyanate, oligomers (Biuret type)	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l	Daphnia - <i>daphnia</i> <i>magna</i>	48 hours
	Acute LC50 >100 mg/l	Fish - Danio rerio (zebra fish)	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia ´	48 hours
	English (GB)	Qatar	11/15

Code	: 00280900	Date of issue/Date of revision	: 12 June 2024
AMERCOAT	T 450 S HARDENER		
SECTIO	N 12: Ecological information		

	water Chronic NOEC 1 mg/l Fresh water Acute LC50 134 mg/l Fresh water	Daphnia - Ceriodaphnia dubia Fish - Oncorhynchus mykiss	- 96 hours
Conclusion/Summary : There are no data av	ailable on the mixture itself		 I

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene 2-methoxy-1-methylethyl acetate	-	79 % - Readily - 10 da 83 % - Readily - 28 da		-
Conclusion/Summary	: There are no d	ata available on the mixtu	re itself.	
Product/ingredient name		Aquatic half-life	Photolysis	Biodegradability
Rexamethylene diisocyanate product (Biuret type)	, oligomerisation	-	-	Not readily
ethylbenzene		-	-	Readily
xylene		-	-	Readily
2-methoxy-1-methylethyl ace	tate	-	-	Readily

12.3 Bioaccumulative potential

2-methoxy-1-methylethyl acetate

Product/ingredient name	LogPow	BCF	Potential
Rexamethylene diisocyanate, oligomerisation product (Biuret type)	5.54	3.2	Low
ethylbenzene	3.6	79.43	Low
xylene	3.12	7.4 to 18.5	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
hexamethylene-di-isocyanate	0.02	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: 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

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

Readily

Code: 00280900Date of issue/Date of revision: 12 June 2024AMERCOAT 450 S HARDENER

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 catalogue	(E	

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 Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	11	11	Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
Tunnel code	: (D/E)
IMDG	: None identified.
IATA	: None identified.

Code : 00280900

AMERCOAT 450 S HARDENER

Date of issue/Date of revision :

: 12 June 2024

SECTION 14: Transport information

14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk	:	Not applicable.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

<u>Annex XIV</u>

according to IMO instruments

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : As from August 24 2023 adequate training is required before industrial or professional use. placing on the market

and use of certain

dangerous substances,

mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

- 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	CLP = C 1272/200 DNEL = EUH sta PNEC =	cute Toxicity Estimate lassification, Labelling and Packaging Regulation [Regulation (EC) No. D8] Derived No Effect Level tement = CLP-specific Hazard statement Predicted No Effect Concentration REACH Registration Number
Full text of abbreviated H statements	: H225 H226 H302 H304 H312 H315 H317 H319 H330 H332 H334 H335 H336	 Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.



Code : 00280900 AMERCOAT 450 S HARDEN	ER	Date of issue/Date of revision : 12 June 202	4
SECTION 16: Other	information		
		amage to organs through prolonged or repeated exposure. Juatic life with long lasting effects.	
Full text of classifications [CLP/GHS]	: Acute Tox. 1 Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Resp. Sens. 1 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 1 ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Cate ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Catego FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 RESPIRATORY SENSITISATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	ry 2
<u>History</u>			
Date of issue/ Date of revision	: 12 June 2024		
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Prepared by	: EHS		
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