## SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to GHS UN rev. 7

Date of issue/Date of revision 17 April 2024

Version 2.1

#### Section 1. Identification **Product code** : 000001085137 **Product name** : SIGMAFAST 278 HARDENER **Product type** : Liquid. Other means of identification 0323232; 00345239; 00351714; 00445562; 00453392 Relevant identified uses of the substance or mixture and uses advised against **Product use** : Coating. Professional applications, Used by spraying. **Uses advised against** : Product is not intended, labelled or packaged for consumer use. Company/undertaking : PPG Industries Sales, Inc. and PPG Coatings (Philippines), Inc. identification 3rd Floor First Life Center 174 Salcedo St., Legaspi Village Makati City 1229, Philippines Tel # 00632- 752-6773/ Fax # 00632-752-6771 **Emergency telephone** : CHEMTREC +(63) 2-395-3308 (CCN 17704) number

### Section 2. Hazards identification

<ul> <li>ACUTE TOXICITY (inhalation) - Category 4</li> <li>SKIN CORROSION/IRRITATION - Category 2</li> <li>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1</li> <li>RESPIRATORY SENSITIZATION - Category 1</li> <li>SKIN SENSITIZATION - Category 1</li> <li>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3</li> <li>AQUATIC HAZARD (ACUTE) - Category 2</li> <li>AQUATIC HAZARD (LONG-TERM) - Category 2</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 44.4%</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 47.7%</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation</li> </ul>
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 54.6%
Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 49.9%

#### **GHS label elements**

### Section 2. Hazards identification

Hazard pictograms	:	
Signal word	: [	Danger
Hazard statements	1 ) )       	Flammable liquid and vapor. May be harmful if swallowed or in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	r c	Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after nandling. Contaminated work clothing should not be allowed out of the workplace.
Response	k r i i i	Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for oreathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off mmediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin rritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: 3	Store locked up. 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.
Other hazards which do not	: F	Prolonged or repeated contact may dry skin and cause irritation.

#### result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

#### CAS number/other identifiers

CAS number

: Not applicable.

Ingredient name	%	CAS number
xylene	25 - <50	1330-20-7
proprietary aralkylpolyamine	10 - <20	SUB119920
1-methoxy-2-propanol	5 - <10	107-98-2
	5 - <10	100-51-6
ethylbenzene	3 - <5	100-41-4
2,4,6-tris(dimethylaminomethyl)phenol	3 - <5	90-72-2
Formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol	3 - <5	445498-00-0
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	3 - <5	68082-29-1
fatty acids and triethylenetetramine		
	0.3 - <1	107-15-3

Product code 000001085137 Product name SIGMAFAST 278 HARDENER

### Section 3. Composition/information on ingredients

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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

Description of necess	sary first aid measures
Eye contact	<ul> <li>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.</li> </ul>
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 recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

Potential acute health	<u>effects</u>
Eye contact	: Causes serious eye damage.
Inhalation	<ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.

#### Over-exposure signs/symptoms

Eye contact	<ul> <li>Adverse symptoms may include the following: pain watering</li> </ul>
Inhalation	<ul> <li>redness</li> <li>Adverse symptoms may include the following: respiratory tract irritation coughing</li> </ul>
	wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking
Ingestion	<ul><li>blistering may occur</li><li>Adverse symptoms may include the following: stomach pains</li></ul>
Indication of immediate r	nedical attention and special treatment needed, if necessary
Netes to physician	the same of inholotion of decomposition products in a fire of

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	<ul><li>No specific treatment.</li></ul>

### Section 4. First aid measures

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.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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 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 thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides
Special protective actions 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.

### Section 6. Accidental release measures

contractor.

Personal precautions, protect	tive 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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".
Environmental precautions	: Avoid dispersal of spilled 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.
Methods and materials for co	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

### Section 6. Accidental release measures

Large spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent
	material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling	
Protective measures :	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease 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 vapor 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.
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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational	exposure	limits

TLV (Philippines, 4/2016). [Xylene]
TLV: 0.1 mg/m <sup>3</sup> 8 hours.
ACGIH TLV (United States, 1/2023).
STEL: 369 mg/m <sup>3</sup> 15 minutes.
STEL: 100 ppm 15 minutes.
TWA: 184 mg/m <sup>3</sup> 8 hours.
TWA: 50 ppm 8 hours.
TLV (Philippines, 4/2016).
TLV-Ceiling: 435 mg/m <sup>3</sup> 8 hours.

**Philippines** 

### Section 8. Exposure controls/personal protection

:		TLV-Ceiling: 100 ppm 8 hours. <b>TLV (Philippines, 4/2016).</b> TLV: 25 mg/m <sup>3</sup> 8 hours. TLV: 10 ppm 8 hours.
:		
		iate monitoring standards. Reference to nods for the determination of hazardous
:	ventilation or other engineering contro contaminants below any recommende also need to keep gas, vapor or dust o	Is to keep worker exposure to airborne d or statutory limits. The engineering controls concentrations below any lower explosive
:	Emissions from ventilation or work pro	beess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process
es		
:	eating, smoking and using the lavatory Appropriate techniques should be use Contaminated work clothing should no	d to remove potentially contaminated clothing. It be allowed out of the workplace. Wash Ensure that eyewash stations and safety
:	assessment indicates this is necessar gases or dusts. If contact is possible, unless the assessment indicates a hig	proved standard should be used when a risk y to avoid exposure to liquid splashes, mists, the following protection should be worn, her degree of protection: chemical splash on hazards exist, a full-face respirator may be
:	be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	a complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, till retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of e of the gloves cannot be accurately
4	butyl rubber	
:	being performed and the risks involve	
:		ormed and the risks involved and should be
:	appropriate standard or certification. I	exposure, select a respirator that meets the Respirators must be used according to a ire proper fitting, training, and other important
	: : :	<ul> <li>Use only with adequate ventilation. Use ventilation or other engineering controc contaminants below any recommender also need to keep gas, vapor or dust or limits. Use explosion-proof ventilation</li> <li>Emissions from ventilation or work prot they comply with the requirements of a cases, fume scrubbers, filters or engine equipment will be necessary to reduce</li> <li>Wash hands, forearms and face thoro eating, smoking and using the lavatory Appropriate techniques should be use Contaminated work clothing before reusing, showers are close to the workstation lip showers are close to the workstation lip of assessment indicates this is necessar gases or dusts. If contact is possible, unless the assessment indicates a hig goggles and/or face shield. If inhalatic required instead.</li> <li>Chemical-resistant, impervious gloves be worn at all times when handling chuthis is necessary. Considering the parcheck during use that the gloves are should be noted that the time to break different for different glove manufactur several substances, the protection timestimated.</li> <li>butyl rubber</li> <li>Personal protective equipment for the being performed and the risks involved before handling this product. When the wear anti-static protective clothing. For discharges, clothing should include and approved by a specialist before handling the approved by a specialist before handling the parcheck based on the task being performed and potential for appropriate standard or certification. If appropriate standard or certification is the appropriate standard or certification.</li> </ul>

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>									
Physical state		Liquid.							
Color	1	Colorless.	Colorless.						
Odor	1	Aromatic. [Slight]	romatic. [Slight]						
Odor threshold	:	Not available.							
Melting point/freezing point	1	Not available.							
Boiling point, initial boiling point, and boiling range	:	>37.78°C (>100°F)							
Flammability	:	Not available.							
Lower and upper explosive (flammable) limits	1	Not available.							
Flash point	:	Closed cup: 29°C (8	4.2°F)						
Auto-ignition temperature	:	Ingredient name		°C		°F		Method	
		1-methoxy-2-propanol		270		518			
Decomposition temperature	:	Not available.		•					
pH	:	Not applicable.							
Viscosity	;	Kinematic (room ten Kinematic (40°C): >2		: >400 n	nm²/s				
Viscosity	:	60 - 100 s (ISO 6mr							
-		Media	Re	sult					
Solubility(ies)	1	cold water		t soluble	;				
Partition coefficient: n- octanol/water	1	Not applicable.							
Vapor pressure	:		Vapo	r Pressu	ire at 2	20°C	Va	por press	sure at 50°C
		Ingredient name	mm Hg	kPa	Met	nod	mm Hg	kPa	Method
		ethylbenzene	9.30076	1.2					
Relative density	:	0.97							
Relative vapor density	:	Not available.							
Particle characteristics									
Median particle size	:	Not applicable.							
Evaporation rate	:	Not available.							
	1								

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
	Philippines Page: 7/13

### Section 10. Stability and reactivity

Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products		Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides
Hazardous polymerization	:	Under normal conditions of storage and use, hazardous polymerization will not occur.

### Section 11. Toxicological information

#### 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	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2,4,6-tris	LD50 Dermal	Rabbit	1.28 g/kg	-
(dimethylaminomethyl)				
phenol				
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Fatty acids, C18-unsatd.,	LD50 Dermal	Rat	>2000 mg/kg	-
dimers, oligomeric reaction				
products with tall-oil fatty				
acids and				
triethylenetetramine				
-	LD50 Oral	Rat	>2000 mg/kg	-
ethylenediamine	LD50 Dermal	Rabbit	0.73 g/kg	-
-	LD50 Oral	Rat	0.5 g/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	-
2,4,6-tris (dimethylaminomethyl) phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
,	Skin - Irritant	Human	-	-	-

#### Conclusion/Summary

Skin

: There are no data available on the mixture itself.

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### Section 11. Toxicological information

#### Eyes

: There are no data available on the mixture itself.

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

#### **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	Sensitizing	
Conclusion/Summary				
Skin	: There are no c	lata available on the mixture	e itself.	
Respiratory	: There are no c	ata available on the mixture	e itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no c	lata available on the mixture	e itself.	
Carcinogenicity				
Conclusion/Summary	: There are no c	lata available on the mixture	e itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no c	lata available on the mixture	e itself.	
Teratogenicity				
Conclusion/Summary	: There are no c	ata available on the mixture	e itself.	
Specific target organ toxici	<u>ty (single exposu</u>	<u>re)</u>		
Name		Category	Route of exposure	Target organs
xylene		Category 3	-	Respiratory tract irritation

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

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Category 3

#### **Aspiration hazard**

1-methoxy-2-propanol

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Narcotic effects

### Section 11. Toxicological information

Skin contact	:	May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	May be harmful if swallowed.
Symptoms related to the phy	<u>ysic</u>	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains
Delayed and immediate effect	<u>cts :</u>	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>S</u>
Not available.		
General	:	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.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	2463.86 mg/kg
Dermal	2395.13 mg/kg
Inhalation (vapors)	17.76 mg/l
Inhalation (dusts and mists)	1.93 mg/l

#### Other information

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### Section 11. Toxicological information

Folonged 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 vapor/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. 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.

### Section 12. Ecological information

#### <u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	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	-
2,4,6-tris	Acute LC50 175 mg/l	Fish	96 hours
(dimethylaminomethyl)phenol			
Fatty acids, C18-unsatd.,	EC10 1.78 mg/l	Algae	72 hours
dimers, oligomeric reaction			
products with tall-oil fatty			
acids and			
triethylenetetramine			

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biode	gradability
xylene benzyl alcohol ethylbenzene Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine			- - -		Readil Readil Readil Not rea	y y

#### **Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
benzyl alcohol	0.87	-	Low
ethylbenzene	3.6	79.43	Low
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)phenol			
ethylenediamine	-2.04	-	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Philippines

### Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard class(es)	3	3	3
Packing group		III	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol)	Not applicable.

#### Additional information

UN	This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.2.
IMDG	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.
ΙΑΤΑ	<ul> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>

# **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.

### Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 17 April 2024
Date of previous issue	: 2/22/2024
Version	: 2.1
Prepared by	: EHS
key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
ACUTE TOXICITY (oral) - Category 5	Calculation method
ACUTE TOXICITY (dermal) - Category 5	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
RESPIRATORY SENSITIZATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
AQUATIC HAZARD (ACUTE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

**V** Indicates information that has changed from previously issued version.

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