SAFETY DATA SHEET

SIGMACOVER 630 HARDENER



Date of issue 21 May 2024

Version 22

number

1. Product and company identification

	inputy identification
Product name	: SIGMACOVER 630 HARDENER
Product code	: 00145031
Product type	: Liquid.
Relevant identified uses of	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Supplier's details	: ₱ PG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777
Emergency telephone	: 078 574 2777

GHS Classification	: FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (oral) - Category 4
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION - Category 1
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1
	HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger

Product code 00145031			Date of issue 21	May 2024	Version	22
Product name SIGMACOVER	630 HAI	RDENER				
2. Hazards identifi	catio	า				
Hazard statements	Harm Caus May May Susp May Caus respi Caus orga	ratory organs) es damage to organs is, kidneys, liver, ner	nhaled. and eye damage. reaction. ation. dizziness. cer.	epeated exposur		9
Precautionary statements		·				
Prevention	have eye o and o area smol	been read and under r face protection. Ke other ignition sources Avoid release to the re when using this pro	before use. Do not har rstood. Wear protective ep away from heat, hot No smoking. Use only environment. Do not be oduct. Wash thoroughly e allowed out of the worl	gloves, protectiv surfaces, sparks outdoors or in a reathe vapor. Do after handling.	ve clothing , open fla well-venti o not eat,	l and mes lated drink or
Response	INHA Imme a PO SKIN Imme befor occu seve	LED: Remove perso ediately call a POISO ISON CENTER or do (or hair): Take off im ediately call a POISO e reuse. IF ON SKIN s: Get medical advic ral minutes. Remove	ed or concerned: Call a I in to fresh air and keep c N CENTER or doctor. If octor. Rinse mouth. Do N mediately all contamina N CENTER or doctor. W I: Wash with plenty of wa e or attention. IF IN EYE contact lenses, if preser N CENTER or doctor.	omfortable for bi F SWALLOWED NOT induce vom ted clothing. Rin Vash contaminat ater. If skin irrita ES: Rinse cautio	reathing. b: Immedia hiting. IF (se skin wi ted clothin tion or ras usly with v	itely call DN th water g h vater for
Storage	: Store	locked up. Store in	a well-ventilated place. I	Keep container ti	ghtly close	ed.
Disposal		ose of contents and c nternational regulatio	ontainer in accordance v ns.	with all local, reg	ional, nati	onal
Other hazards which do not result in classification		es digestive tract bur e irritation.	ns. Prolonged or repeat	ted contact may	dry skin a	nd

3. Composition/information on ingredients

Substance/mixture

CAS number/other identifiers

: Mixture

CAS number: Not applicable.CSCL number: Not available.			
Ingredient name	%	CAS number	CSCL
 Nonylphenol branched m-Xylylenediamine Propylidynetrimethanol, propoxylated, reaction products with ammonia 	25 - <50	84852-15-3	3-503
	15 - <20	1477-55-0	3-2888; 3-308
	12.5 - <15	39423-51-3	Not available.
Xylene	7 - <10	1330-20-7	3-3; 3-60
isobutyl alcohol	7 - <10	78-83-1	2-3049
Ethyl Benzene	1 - <2	100-41-4	3-28; 3-60

Product name SIGMACOVER 630 HARDENER

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.

4. First aid measures

Description of necessary	first aid measures
Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 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 effect		
Eye contact	Causes serious eye damage.	
Inhalation	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.	
Skin contact	Causes severe burns. Causes damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause an allergic skin reaction.	n
Ingestion	Harmful if swallowed. Corrosive to the digestive tract. Causes burns. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.	
Over-exposure signs/symp	<u>15</u>	
Eye contact	Adverse symptoms may include the following: pain watering redness	
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations	
	lanan Paga	. 1

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4. First aid measu	res
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
	ical attention and special treatment needed, if necessary
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.
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)

5. Fire-fighting m	easures
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 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 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.

6. Accidental release measures

Personal precautions, protec	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".
	Japan Page: 4/15

6. Accidental release measures

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 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. : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and Large spill 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 noncombustible, 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.

7. Handling and storage

Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe 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.

Conditions for safe storage : 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.

Japan

Product name SIGMACOVER 630 HARDENER

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
m-Xylylenediamine Xylene		Japan Society for Occupational Health (Japan, 5/2023). Skin sensitizer. Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m ³ 8 hours.
isobutyl alcohol		Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 150 mg/m ³ 8 hours. OEL-M: 50 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 50 ppm 8 hours.
Ethyl Benzene		Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 87 mg/m ³ 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours.
Recommended monitoring procedures		opriate monitoring standards. Reference to ethods for the determination of hazardous
Appropriate engineering controls	or other engineering controls to kee below any recommended or statuto	Use process enclosures, local exhaust ventilation ep worker exposure to airborne contaminants ory limits. The engineering controls also need to ions below any lower explosive limits. Use ent.
Environmental exposure controls		
ndividual protection measu	<u>ires</u>	
Hygiene measures	eating, smoking and using the lava Appropriate techniques should be u Contaminated work clothing should	oroughly after handling chemical products, before tory and at the end of the working period. used to remove potentially contaminated clothing. I not be allowed out of the workplace. Wash ng. Ensure that eyewash stations and safety on location.
Eye protection <u>Skin protection</u>	: Chemical splash goggles and face	shield.

Japan

8. Exposure controls/personal protection

Hand protection	. Chemical resistant impensions gloves complying with an enpressed standard about
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.
Gloves	: butyl rubber
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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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.

9. Physical and chemical properties

<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Yellow.		
Odor	: Aromatic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 41.3°C (106.3°F)		
Relative density	: 0.95		
Solubility(ies)	Media	Result	
oolubility(ico)	old water	Not soluble	
Auto-ignition temperature	: 415°C (779°F)		
Viscosity	: < 30 s (ISO 6mm)		

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.

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10. Stability and r	eactivity	
Incompatible materials	ible 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	

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
-Nonylphenol branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
m-Xylylenediamine	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
Propylidynetrimethanol, propoxylated, reaction products with ammonia	LD50 Dermal	Rabbit	0.4 g/kg	-
	LD50 Oral	Rat	0.22 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
isobutyl alcohol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Ethyl Benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
✔-Nonylphenol branched m-Xylylenediamine Xylene	Skin - Erythema/Eschar Skin - Severe irritant Skin - Moderate irritant	Rabbit Rat Rabbit	4 - -	- 4 hours 24 hours 500 mg	- 4 hours -

Sensitization

••••••	Route of exposure	Species	Result
M-Xylylenediamine	skin	Mouse	Sensitizing

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

11. Toxicological information

Name	Category	Route of exposure	Target organs
Nonylphenol branched	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
m-Xylylenediamine	Category 1	-	respiratory organs
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory organs
	Category 3		Narcotic effects
isobutyl alcohol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Ethyl Benzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
✔-Nonylphenol branched m-Xylylenediamine Xylene	Category 2 Category 1 Category 1		kidneys, liver respiratory organs nervous system, respiratory organs
Ethyl Benzene	Category 1	-	hearing organs, nervous system

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely : Not available. routes of exposure

Potential acute health effects	
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes severe burns. Causes damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	Harmful if swallowed. Corrosive to the digestive tract. Causes burns. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering
	redness

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11. Toxicological	info	ormation
Inhalation	r c f c c c r r i	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	F r c t r i	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight ncrease in fetal deaths skeletal malformations
Ingestion	s r i	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effe	<u>cts a</u>	nd also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	: 1	Not available.
Potential delayed effects	: 1	Not available.
Long term exposure		
Potential immediate effects	: 1	Not available.
Potential delayed effects	: 1	Not available.
Potential chronic health eff	fects	
General	r (t	Causes 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.
Carcinogonicity	. 0	Suspected of causing cancer. Pick of cancer depends on duration and lovel of

Carcinogenicity	1	Suspected of causing cancer. Risk of cancer depends on duration and level of
		exposure.
Mutagenicity	1	No known significant effects or critical hazards.

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Reproductive toxicity	: May damage fertility or the unborn child.

Numerical measures of toxicity Acute toxicity estimates

11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMACOVER 630 HARDENER	1143.7	2737.3	N/A	53.8	2.2
4-Nonylphenol branched	1300	2140	N/A	N/A	N/A
m-Xylylenediamine	930	1100	N/A	N/A	0.5
Propylidynetrimethanol, propoxylated, reaction products with ammonia	500	1100	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
isobutyl alcohol	2830	2460	N/A	11	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A

Other information

Causes digestive tract burns. 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 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.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
A-Nonylphenol branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Ethyl Benzene	-	79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
<mark>K</mark> ylene Ethyl Benzene			-		Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nonylphenol branched m-Xylylenediamine Propylidynetrimethanol, propoxylated, reaction products with ammonia	5.4 0.18 -1.13	251.19 2.69 -	Low Low Low
Xylene isobutyl alcohol Ethyl Benzene	3.12 1 3.6	7.4 to 18.5 - 79.43	Low Low Low

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.

14. Transport information

•			
	UN	IMDG	ΙΑΤΑ
UN number	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)
Packing group			✓ II
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.	(4-nonylphenol, branched)	Not applicable.

Additional information

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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. Transport information

Transport in bulk according : Not applicable. to IMO instruments

15. Regulatory information

Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	III	Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
₩kylphenol (limited to those the alkyl group is C9)	47	Class 1	320
Xylene	8.5	Class 1	80
Ethylbenzene	1.5	Class 1	53

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

Ingredient name	%		Reference number
ethyl benzene	≤10	Special Organic Solvents	3-3

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
M-Xylylenediamine	≥10 - ≤20	Listed	555
Xylene Butanol	≤10 ≤10	Listed Listed	136 477
Ethylbenzene	≤10	Listed	70

Chemicals requiring notification

Ingredient name	%		Reference number
n-Xylylenediamine	≥10 - ≤20	Listed	555
Xylene	≤10	Listed	136
Butanol	≤10	Listed	477
Ethylbenzene	≤10	Listed	70

Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

<u>Mutagen</u>

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Inflammable
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed

15. Regulatory information

Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
ISHL Enforcement Order Appendix 1 - Dangerous Substances	: Inflammable
Lead regulation	: Not listed
Organic solvents poisoning prevention	: Class 2

Poisonous and Deleterious Substances

Ingredient name	%	Status	Reference number
m-Xylylenediamine	19.75	Deleterious	2-1-4-9

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
▼ylene Ethylbenzene Toluene Phenol Benzene	≤10 ≤10 ≤10 ≤10 ≤10 ≤10	Priority assessment Priority assessment Priority assessment Priority assessment Priority assessment	125 50 46 62 45

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

JSOH Carcinogen	: Group 2B
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: All components are listed or exempted.
Road law	: Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 21 May 2024
Date of previous issue	: 11/7/2021
Version	: 22
Prepared by	: EHS
Key to abbreviations	 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association 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) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations

✓ Indicates information that has changed from previously issued version.

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