SAFETY DATA SHEET

AMERLOCK SEALER HARDENER



Date of issue 9 October 2024

Version 22.02

1. Product and company identification

1. I roduct and company identification		
Product name	: AMERLOCK SEALER HARDENER	
Product code	: 00281136	
Product type	: Liquid.	
Relevant identified uses	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	: PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777	
Emergency telephone number	: 078 574 2777	

2. Hazards identification

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

2 Hazards identification

Hazard statements	: Combustible liquid. Harmful if swallowed. Toxic in contact with skin or if inhaled.
	Causes severe skin burns and eye damage.
	May cause an allergic skin reaction.
	May cause respiratory irritation.
	May cause drowsiness or dizziness.
	Suspected of causing cancer.
	Suspected of damaging fertility or the unborn child. May cause damage to organs. (central nervous system (CNS), kidneys)
	Causes damage to organs through prolonged or repeated exposure. (central
	nervous system (CNS), kidneys, liver, respiratory organs)
	Toxic to aquatic life.
	Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. 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	: 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 result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F).

3. Composition/information on ingredients

: Mixture

CAS number/other identifiers

CAS number	: Not applicable.
CSCL number	: Not available.

Ingredient name	%	CAS number	CSCL
furfuryl alcohol	20 - <25	98-00-0	5-31
Poly[oxy(methyl-1,2-ethanediyl)], α-	15 - <20	9046-10-0 (n = 2-6)	(7)-324
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-		, ,	· · /
Polyaminoamide	10 - <12.5	68082-29-1	7-401
Formaldehyde, polymer with 1,3-dimethylbenzene	10 - <12.5	26139-75-3	7-1572
diisodecyl phthalate	10 - <12.5	68515-49-1	3-1307
benzyl alcohol	7 - <10	100-51-6	3-1011
Formaldehyde, polymer with benzenamine,	7 - <10	135108-88-2	Not available.

3. Composition/information on ingredients

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hydrogenated 2,4,6-Tris(dimethylaminomethyl)phenol	1 - <2	90-72-2	3-714; 3-762;
nonylphenol	1 - <2	25154-52-3	3-776 3-503
3,6-diazaoctanethylenediamin	1 - <2	112-24-3	2-163; 7-5
Salicylic acid 4,4'-methylenebis(cyclohexan-1-amine)	1 - <2 1 - <2	69-72-7 1761-71-3	3-1640 3-2272; 4-101

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

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Potential acute health effect	t <u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes severe burns. Toxic in contact with skin. May cause 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. May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympt	<u>oms</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

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4. First aid measu	
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
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	cal 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 measures	
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	: Combustible liquid. 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 Formaldehyde.
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".
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	ontainment 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 release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an

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. 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

7. Handling and storage

Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits	
furfuryl alcohol benzyl alcohol		Japan Society for Occupational Health (Japan, 5/2023) OEL-M 8 hours: 5 ppm. OEL-M 8 hours: 20 mg/m ³ . Technical Guideline Concerning the Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 4/2023) TWA 8 hours: 0.2 ppm. Japan Society for Occupational Health (Japan, 5/2023) Skin sensitizer. OEL-C: 25 mg/m ³ .	
Recommended monitoring procedures	: Reference should be made to appropri national guidance documents for metho substances will also be required.		
Appropriate engineering controls	or other engineering controls to keep w	e process enclosures, local exhaust ventilation vorker exposure to airborne contaminants mits. The engineering controls also need to below any lower explosive limits. Use	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Individual protection measu	res		
Hygiene measures	eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should not	t to remove potentially contaminated clothing. t be allowed out of the workplace. Wash Ensure that eyewash stations and safety	
Eye protection	: Chemical splash goggles and face shie	eld.	
Skin protection			
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
Gloves	: nitrile neoprene		
Body protection		body should be selected based on the task I and should be approved by a specialist	
		Japan Page: 6/15	

8. Exposure controls/personal protection

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

Appearance			
Physical state	: Liquid.		
Color	: Colorless.		
Odor	: Characteristic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 91°C (195.8°F)		
Relative density	: 1.02		
Bulk Density (g/cm ³)	: 1.015		
Solubility/ico)	Media	Result	
Solubility(ies)	. cold water	Not soluble	

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.		
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 Formaldehyde.		

11. Toxicological information

Information on toxicological effects Acute toxicity

11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
furfuryl alcohol	LC50 Inhalation Vapor	Rat	934 mg/m ³	4 hours
-	LC50 Inhalation Vapor	Rat	233 ppm	4 hours
	LD50 Dermal	Rabbit	400 mg/kg	-
	LD50 Dermal	Rat	3825 mg/kg	-
	LD50 Oral	Rat	0.132 g/kg	-
Poly[oxy(methyl-	LD50 Dermal	Rat	2980 mg/kg	-
1,2-ethanediyl)], α-				
(2-aminomethylethyl)-ω-				
(2-aminomethylethoxy)-				
	LD50 Oral	Rat	2885 mg/kg	-
diisodecyl phthalate	LD50 Dermal	Rabbit	16000 mg/kg	-
	LD50 Oral	Rat	>60000 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Formaldehyde, polymer with	LD50 Oral	Rat	300 mg/kg	-
benzenamine, hydrogenated				
2,4,6-Tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl)				
phenol				
-	LD50 Oral	Rat	1200 mg/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
-	LD50 Oral	Rat	1716 mg/kg	-
Salicylic acid	LD50 Oral	Rat	0.891 g/kg	-
4,4'-methylenebis	LD50 Dermal	Rabbit	2.11 g/kg	-
(cyclohexan-1-amine)				
*	LD50 Oral	Rat	0.625 g/kg	-

Irritation/Corrosion

Not available.

Sensitization

••••••	Route of exposure	Species	Result
3,6-diazaoctanethylenediamin	skin	Guinea pig	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
furfuryl alcohol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Formaldehyde, polymer with 1,3-dimethylbenzene	Category 3	-	Respiratory tract irritation
benzyl alcohol	Category 1	-	central nervous system (CNS), kidneys
	Category 3		Narcotic effects
nonylphenol	Category 3	-	Respiratory tract irritation
3,6-diazaoctanethylenediamin	Category 3	-	Respiratory tract irritation
Salicylic acid	Category 1	-	central nervous system (CNS)
4,4'-methylenebis(cyclohexan-1-amine)	Category 2	-	central nervous system (CNS)

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
furfuryl alcohol	Category 1	-	respiratory organs
	Category 2		kidneys, liver
benzyl alcohol	Category 1	-	central nervous system (CNS)
Formaldehyde, polymer with benzenamine, hydrogenated	Category 2	oral	kidneys
nonylphenol	Category 2	-	bladder, kidneys
Salicylic acid	Category 1	-	central nervous system (CNS)
4,4'-methylenebis(cyclohexan-1-amine)	Category 2	-	central nervous system (CNS), eyes, gastrointestinal tract, liver, muscles

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effect	:ts	
Eye contact	:	Causes serious eye damage.
Inhalation	:	Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	:	Causes severe burns. Toxic in contact with skin. May cause 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. May cause 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

11. Toxicological information

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
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>		
Potential immediate effects	available.	
Potential delayed effects	available.	
<u>Long term exposure</u>		
Potential immediate effects	available.	
Potential delayed effects	available.	
Potential chronic health eff		
General	uses damage to organs through prolonged or repeated expos eated contact can defat the skin and lead to irritation, cracking ce sensitized, a severe allergic reaction may occur when subs rery low levels.	g and/or dermatitis.
Carcinogenicity	spected of causing cancer. Risk of cancer depends on durations on duration of the second se	on and level of
Mutagenicity	known significant effects or critical hazards.	
Reproductive toxicity	spected of damaging 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)
MERLOCK SEALER HARDENER	349.2	903.0	N/A	2.1	N/A
furfuryl alcohol	132	400	N/A	0.934	N/A
Poly[oxy(methyl-1,2-ethanediyl)], α-	2885	2980	N/A	N/A	N/A
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	N1/A	16000	N/A	N/A	N/A
diisodecyl phthalate benzyl alcohol	N/A 1200	1100	N/A N/A	N/A N/A	N/A N/A
Formaldehyde, polymer with benzenamine, hydrogenated	300	N/A	N/A	N/A	N/A
2,4,6-Tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
nonylphenol	580	2140	N/A	N/A	N/A
3,6-diazaoctanethylenediamin	N/A	300	N/A	N/A	N/A
Salicylic acid	891	N/A	N/A	N/A	N/A
4,4'-methylenebis(cyclohexan-1-amine)	625	2110	N/A	N/A	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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Avoid contact with skin and clothing. Can form nitrosamines in the presence of certain organic materials and if heated.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	EC50 15 mg/l	Algae	72 hours
Formaldehyde, polymer with benzenamine, hydrogenated	Acute EC50 43.94 mg/l	Algae	72 hours
	Acute EC50 15.4 mg/l	Daphnia	48 hours
	Acute LC50 63 mg/l	Fish	96 hours
2,4,6-Tris	Acute LC50 >100 mg/l	Daphnia	48 hours
(dimethylaminomethyl)phenol			
	Acute LC50 >100 mg/l	Fish	96 hours
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Salicylic acid	Acute EC50 1147.57 mg/l Fresh water	Daphnia - <i>Daphnia longispina</i> - Neonate	48 hours
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days

Persistence/degradability

12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum
Formaldehyde, polymer with benzenamine, hydrogenated 2,4,6-Tris (dimethylaminomethyl)phenol	- OECD 301D Ready Biodegradability - Closed Bottle Test		eadily - 28 days eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)- benzyl alcohol Formaldehyde, polymer with benzenamine, hydrogenated 2,4,6-Tris (dimethylaminomethyl)phenol	-		-		Not rea Readily Not rea Not rea	/ adily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
furfuryl alcohol	0.3	-	Low
diisodecyl phthalate	8.8	-	High
benzyl alcohol	0.87	-	Low
Formaldehyde, polymer with	2.68	209 to 219	Low
benzenamine, hydrogenated			
2,4,6-Tris	0.219	-	Low
(dimethylaminomethyl)phenol			
nonylphenol	3.28	154.88	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low
Salicylic acid	2.21 to 2.26	-	Low
4,4'-methylenebis	2.03	-	Low
(cyclohexan-1-amine)			

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

Other adverse effects

: No known significant effects or critical hazards.

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

13. Disposal considerations

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	UN3066	UN3066	UN3066
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	8	8	8
Packing group	II	II	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.	(nonylphenol)	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.

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 III petroleums	III	Flammable - Keep Fire Away	2000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
Alkylphenol (limited to those the alkyl group is C9)	1.4	Class 1	320
Triethylenetetramine	1.0	Class 2	278

Industrial Safety and Health Act

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

15. Regulatory information

None of the components are listed.

Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
Furfuryl alcohol Benzyl alcohol	≥20 - ≤30 ≤10	Listed Listed	491 530-2, 530-4 (2024-04)

Chemicals requiring notification

Ingredient name	%	Reference number
Furfuryl alcohol Benzyl alcohol	≥20 - ≤30 ≤10	491 530-2, 530-4 (2024-04)

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	: Not applicable.	
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed	
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed	
Harmful Substances, Prohibited for Manufacturing	: Not listed	
Lead regulation	: Not listed	
Organic solvents poisoning prevention	: Not applicable.	

Poisonous and Deleterious Substances

Ingredient name	%	Status	Reference number
nonylphenol	1.3585	Deleterious	2-1-78-2

Chemical Substances Control Law (CSCL)

Ingredient name	%		Reference number
Furfuryl alcohol	≥20 - ≤30	Priority assessment	233

High Pressure Gas Control : Not available. Law

15. Regulatory information

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.

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

16. Other information

History	
Date of issue/Date of revision	: 9 October 2024
Date of previous issue	: 9/29/2024
Version	: 22.02
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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