SAFETY DATA SHEET



MEGASEAL HSPC HARDENER



Date of issue 14 May 2025

Version 1.01

1. Product and company identification

Product name : MEGASEAL HSPC HARDENER

Product code : 000010025268
Other means of : 00481976
identification

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 : ACUTE TOXICITY (oral) - Category 4

SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1
TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - 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

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2. Hazards identification

Hazard statements

: Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Suspected of damaging fertility or the unborn child.

Causes damage to organs. (central nervous system (CNS), kidneys, respiratory

organs)

Causes damage to organs through prolonged or repeated exposure. (bladder,

central nervous system (CNS), kidneys, respiratory organs)

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. Wear respiratory protection. 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 experiencing respiratory symptoms: 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. 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

Substance/mixture : Mixture

CAS number/other identifiers

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

%	CAS number	CSCL
25 - <50	25154-52-3	3-503
15 - <20	68082-29-1	7-401
12.5 - <15	9046-10-0 (n = 2-6)	(7)-324
	, ,	
10 - <12.5	100-51-6	3-1011
10 - <12.5	135108-88-2	Not available.
3 - <5	1477-55-0	3-2888; 3-308
3 - <5	98-54-4	3-503
2 - <3	36704-31-1	Not available.
	25 - <50 15 - <20 12.5 - <15 10 - <12.5 10 - <12.5 3 - <5	25 - <50 15 - <20 12.5 - <15 25154-52-3 68082-29-1 9046-10-0 (n = 2-6) 10 - <12.5 10 - <12.5 10-51-6 135108-88-2 3 - <5 3 - <5 98-54-4

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3. Composition/information on ingredients

1,2-ethanediamine			
2,4,6-Tris(dimethylaminomethyl)phenol	2 - <3	90-72-2	3-714; 3-762;
			3-776
Triethylenetetramine	1 - <2	112-24-3	2-163; 7-5
Salicylic acid	1 - <2	69-72-7	3-1640
4,4'-methylenebis(cyclohexan-1-amine)	1 - <2	1761-71-3	3-2272; 4-101
4-Nonylphenol branched	1 - <2	84852-15-3	3-503
4-nonylphenol	0.1 - < 0.2	104-40-5	3-503

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 effects

Eye contact : Causes serious eye damage.

Inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin contact: Causes severe burns. Causes damage to organs following a single exposure in

contact with 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.

Over-exposure signs/symptoms

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

reduced fetal weight increase in fetal deaths skeletal malformations

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4. First aid measures

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

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 medical 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

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

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. 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

halogenated compounds

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.

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.

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6. Accidental release measures

Personal precautions, protective 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. 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 containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. 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. 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.

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 or asthma, allergies or chronic or recurrent respiratory disease 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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.

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8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

benzyl alcohol

m-phenylenebis(methylamine)

Japan Society for Occupational Health (Japan, 5/2023) Skin sensitizer.

OEL-C: 25 mg/m3.

Japan Society for Occupational Health

(Japan, 5/2023) Skin sensitizer.

procedures

Recommended monitoring: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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 measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye protection **Skin protection**

: Chemical splash goggles and face shield.

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.

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

: Use an air-fed respirator unless a site-specific assessment determines that an airfed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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.

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9. Physical and chemical properties

Appearance

Physical state : Liquid.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 121°C (249.8°F)

Relative density : 0.99

Solubility(ies) : Media Result

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 halogenated compounds Formaldehyde.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
• •	LD50 Oral	Rat	580 mg/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	-
oenzyl 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	-
penzenamine, hydrogenated				
m-Xylylenediamine	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male,	>3100 mg/kg	-
		Female		
	LD50 Oral	Rat	930 mg/kg	-
4-tert-butylphenol	LD50 Dermal	Rabbit	2.29 g/kg	-
	LD50 Oral	Rat	2.95 g/kg	-
2,4,6-Tris	LD50 Dermal	Rat	1280 mg/kg	-

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11. Toxicological information

(dimethylaminomethyl)				
phenol				
	LD50 Oral	Rat	1200 mg/kg	-
Triethylenetetramine	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	-
4-Nonylphenol branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
4-nonylphenol	LD50 Oral	Rat	1620 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
m-Xylylenediamine	Skin - Severe irritant	Rat	-	4 hours	4 hours
4-Nonylphenol branched	Skin - Erythema/Eschar	Rabbit	4	-	

Sensitization

3.00.000	Route of exposure	Species	Result
m-Xylylenediamine	skin	Mouse	Sensitizing
Triethylenetetramine	skin	Guinea pig	Sensitizing

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
nonylphenol	Category 3	-	Respiratory tract irritation
benzyl alcohol	Category 1	-	central nervous system (CNS), kidneys
-	Category 3	-	Narcotic effects
m-Xylylenediamine	Category 1	-	respiratory organs
4-tert-butylphenol	Category 3	-	Respiratory tract irritation
Triethylenetetramine	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)
4-Nonylphenol branched	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects

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11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
nonylphenol	Category 2	-	bladder, kidneys
benzyl alcohol	Category 1	-	central nervous system (CNS)
Formaldehyde, polymer with benzenamine, hydrogenated	Category 2	oral	kidneys
m-Xylylenediamine	Category 1	-	respiratory organs
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
4-Nonylphenol branched	Category 2	-	kidneys, liver

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin contact: Causes severe burns. Causes damage to organs following a single exposure in

contact with 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.

Symptoms related to the physical, 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

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

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11. Toxicological information

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Once

sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
MEGASEAL HSPC HARDENER	726.9	2651.1	N/A	N/A	5.7
nonylphenol	580	2140	N/A	N/A	N/A
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	2885	2980	N/A	N/A	N/A
benzyl alcohol	1200	1100	N/A	N/A	N/A
Formaldehyde, polymer with benzenamine, hydrogenated	300	N/A	N/A	N/A	N/A
m-Xylylenediamine	930	1100	N/A	N/A	0.5
4-tert-butylphenol	2950	2290	N/A	N/A	N/A
2,4,6-Tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
Triethylenetetramine	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
4-Nonylphenol branched	1300	2140	N/A	N/A	N/A
4-nonylphenol	1620	N/A	N/A	N/A	N/A

Other information :

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11. Toxicological information

Causes digestive tract burns. 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). Can form nitrosamines in the presence of certain organic materials and if heated. 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
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
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
4-tert-butylphenol	Acute EC50 16.91 mg/l Fresh water	Algae - Selenastrum capricornutum - Exponential growth phase	72 hours
2,4,6-Tris	Acute LC50 >100 mg/l	Daphnia	48 hours
(dimethylaminomethyl)phenol		·	
	Acute LC50 >100 mg/l	Fish	96 hours
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
4-Nonylphenol branched	Acute EC50 0.04 mg/l	Algae - Raphidocelis subcapitata	72 hours
	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
4-nonylphenol	Acute EC50 117.7 μg/l Fresh water	Algae - Raphidocelis subcapitata - Exponential growth phase	72 hours
	Chronic EC10 54.4 µg/l Fresh water	Algae - Raphidocelis subcapitata - Exponential growth phase	72 hours

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum	
Formaldehyde, polymer with benzenamine, hydrogenated	-	0 % - Not readily - 28 days	-	-	
	OECD Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 days	-	-	

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12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Poly[oxy(methyl-	-	-	Not readily
1,2-ethanediyl)], α-			-
(2-aminomethylethyl)-ω-			
(2-aminomethylethoxy)-			
benzyl alcohol	-	-	Readily
Formaldehyde, polymer with	-	-	Not readily
benzenamine, hydrogenated			
2,4,6-Tris	-	-	Not readily
(dimethylaminomethyl)phenol			-

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
nonylphenol	3.28	154.88	Low
benzyl alcohol	0.87	-	Low
Formaldehyde, polymer with	2.68	209 to 219	Low
benzenamine, hydrogenated			
m-Xylylenediamine	0.18	2.69	Low
4-tert-butylphenol	3	67.61	Low
2,4,6-Tris	0.219	-	Low
(dimethylaminomethyl)phenol			
Triethylenetetramine	-1.66 to -1.4	-	Low
Salicylic acid	2.21 to 2.26	-	Low
4,4'-methylenebis	2.03	-	Low
(cyclohexan-1-amine)			
4-Nonylphenol branched	5.4	251.19	Low
4-nonylphenol	5.76	380.19	Low

Mobility in soil

Soil/Water partition

coefficient

: 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 liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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14. Transport information

	UN	IMDG	IATA
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 ≤5 L or ≤5 kg.

IATA : 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
⊘ ategory IV	Class III petroleums	III	Flammable - Keep Fire Away	2000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name			
Alkylphenol (limited to those the alkyl group is C9) 4-tert-Butylphenol Triethylenetetramine	28	Class 1	320
	3.7	Class 2	368
	1.4	Class 2	278

Industrial Safety and Health Act

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

None of the components are listed.

Substance(s) requiring labelling

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15. Regulatory information

Ingredient name	%	Status	Reference number
Nonylphenol(2025-04)	≥20 - ≤30	Listed	2-1519 (2025-04)
Benzyl alcohol	≥10 - ≤20	Listed	530-4, 2-1899 (2025-04)
m-Xylylenediamine	≤10	Listed	(2023-04) 555, 2-1981 (2025-04)
4-tert-Butylphenol(2025-04)	≤10	Listed	2-1170 (2025-04)
2,4,6-Tris(dimethylaminomethyl)phenol(2025-04)	≤10	Listed	2-1379 (2025-04)
N,N'-Bis(2-aminoethyl)ethane-1,2-diamine(2025-04)	≤10	Listed	2-1569 (2025-04)
Salicylic acid(2025-04)	≤10	Listed	2-614 (2025-04)
Bis(4-aminocyclohexyl)methane(2025-04)	≤10	Listed	2-1570 (2025-04)
4-Nonylphenol (It is limited that branched chain.)(2025-04)	≤10	Listed	2-1520 (2025-04)

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Nonylphenol(2025-04)	≥20 - ≤30	Listed	2-1519 (2025-04)
Benzyl alcohol	≥10 - ≤20	Listed	530-4, 2-1899 (2025-04)
m-Xylylenediamine	≤10	Listed	555, 2-1981 (2025-04)
4-tert-Butylphenol(2025-04)	≤10	Listed	2-1170 (2025-04)
2,4,6-Tris(dimethylaminomethyl)phenol(2025-04)	≤10	Listed	2-1379 (2025-04)
N,N'-Bis(2-aminoethyl)ethane-1,2-diamine(2025-04)	≤10	Listed	2-1569 (2025-04)
Salicylic acid(2025-04)	≤10	Listed	2-614 (2025-04)
Bis(4-aminocyclohexyl)methane(2025-04)	≤10	Listed	2-1570 (2025-04)
4-Nonylphenol (It is limited that branched chain.)(2025-04)	≤10	Listed	2-1520 (2025-04)

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

None of the components are listed.

Mutagen

None of the components are listed.

Corrosive liquid : Not listed

Occupational Safety and : Not applicable.

Health Law

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15. Regulatory information

Regulations on the

Prevention of Tetraalkyl

Lead Poisoning

Harmful Substances

Subject to Obtaining

Permission for Manufacturing

Harmful Substances,

Prohibited for

: Not listed

: Not listed

: Not listed

Manufacturing Lead regulation : Not listed

Organic solvents poisoning prevention

: Not applicable.

Poisonous and Deleterious Substances

Ingredient name	%	Status	Reference number
nonylphenol	26.64	Deleterious	2-1-78-2

Chemical Substances Control Law (CSCL)

None of the components are listed.

High Pressure Gas Control: Not available.

Law

Explosives Control Law

None of the components are listed.

Law concerning prevention

of pollution of the ocean

: Not available.

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 : Not listed **List of Specially Controlled**

Industrial Waste

: Not listed

Japan inventory : All components are listed or exempted.

: Not available. **Road law**

16. Other information

History

Date of issue/Date of : 14 May 2025

revision

Date of previous issue : 4/20/2025 **Version** : 1.01

: EHS Prepared by

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Product name MEGASEAL HSPC HARDENER

16. Other information

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.

Notice to reader

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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