SAFETY DATA SHEET

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision 9 Au

Version 13

9 August 2025

Section 1. Chemical product and company identification

Product code : 00333526

Product name : AMERLOCK 2AL ALUMINUM CURE
Product name : AMERLOCK 2AL ALUMINUM CURE

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against

: Not applicable.

Supplier's details : PPG Coatings (Kunshan) Co., Ltd

53 Jinyang Road, Lujia Town,

215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857

Emergency telephone number (with hours of

operation)

: 00 86 532 83889090

Section 2. Hazards identification

Classification of the substance or mixture according to GB 30000.1-2024 and GB 30000-2013

Emergency overview

Liauid.

Characteristic.

Tammable liquid and vapor.

May be harmful if swallowed or in contact with skin.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes serious eye damage.

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

May cause respiratory irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

Exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Immediately call a POISON CENTER or doctor.

See Section 12 for environmental precautions.

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 2. Hazards identification

Classification of the substance or mixture

: ► AMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (oral) - Category 5
ACUTE TOXICITY (dermal) - Category 5
SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 3.1%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 25.3%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 49.9%

GHS label elements Hazard pictograms











Signal word

: Danger

Hazard statements : Flami

Manufacture in the second seco

May be harmful if swallowed or in contact with skin.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes serious eye damage.

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

May cause respiratory irritation. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Detain 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 2. Hazards identification

Response

: Collect spillage. IF exposed or concerned: Get medical advice or attention. 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.

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Storage

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Physical and chemical hazards

: Flammable liquid and vapor.

Health hazards

: May be harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

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 dryness cracking

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

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 2. Hazards identification

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

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Environmental hazards: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

Other hazards which do not : Causes digestive tract burns. Prolonged or repeated contact may dry skin and

cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	%	CAS number
varium sulfate	25 - <40	7727-43-7
Talc , not containing asbestiform fibres	10 - <25	14807-96-6
4-nonylphenol, branched	10 - <25	84852-15-3
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	1 - <10	68082-29-1
fatty acids and triethylenetetramine		
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	1 - <10	68515-49-1
xylene isomers mixture	1 - <10	1330-20-7
m-phenylenebis(methylamine)	1 - <10	1477-55-0
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-	1 - <10	9046-10-0 (n = 2-6)
(2-aminomethylethoxy)-		
4-tert-butyl phenol	1 - <10	98-54-4
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)	1 - <10	36704-31-1
oxirane and 1,2-ethanediamine		
ethylbenzene	1 - <10	100-41-4
Phenol, 2-nonyl-, branched	1 - <10	91672-41-2
Polyamidoamine	0.1 - <1	SUB104580
3,6-diazaoctanethylenediamin	0.1 - <1	112-24-3
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid	0.1 - <1	911674-82-3
and 1,3-phenylenedimethanamine		
3,6,9-triazaundecamethylenediamine	0.1 - <1	112-57-2

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of 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 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. May be harmful in contact with skin. Defatting to the skin.

May cause an allergic skin reaction.

Ingestion : May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

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 dryness cracking

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

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 4. First aid measures

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 mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

: 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 sulfur oxides

halogenated compounds metal oxide/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.

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Section 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. 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 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.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with 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.

Section 7. Handling and storage

Precautions for safe handling

Fut 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. 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.

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Section 7. Handling and storage

including any incompatibilities

Product code 00333526

Conditions for safe storage, : Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<mark>p</mark> arium sulfate	GBZ 2.1 (China, 7/2024)
	PC-TWA 8 hours: 10 mg/m³ (as Ba).
Talc , not containing asbestiform fibres	GBZ 2.1 (China, 7/2024)
	PC-TWA 8 hours: 3 mg/m³. Form: total
	dust.
	PC-TWA 8 hours: 1 mg/m³. Form:
	respirable dust.
xylene	GBZ 2.1 (China, 7/2024) [Xylene]
	PC-TWA 8 hours: 50 mg/m³.
	PC-STEL 15 minutes: 100 mg/m³.
m-phenylenebis(methylamine)	ACGIH TLV (United States, 1/2024)
	Absorbed through skin.
	C: 0.018 ppm.
ethylbenzene	GBZ 2.1 (China, 7/2024)
	PC-TWA 8 hours: 100 mg/m³.
	PC-STEL 15 minutes: 150 mg/m³.
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic	ACGIH TLV (United States)
acid and 1,3-phenylenedimethanamine	TWA: 3 mg/m³ (Respirable fraction).
	TWA: 10 mg/m³ (Total dust).

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. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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

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Section 8. Exposure controls/personal protection

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. 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

: Use an air-fed respirator unless a site-specific assessment determines that an air-fed 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.

Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state : Liquid.

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 50°C (122°F)

Evaporation rate : 0.7 (butyl acetate = 1)

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure : 1.2 kPa (8.8 mm Hg)

Relative density : 1.48

Solubility(ies) : Media Result

cold water Not soluble

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available.

Kinematic (40°C): >21 mm²/s

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Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

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 sulfur oxides halogenated compounds

metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Farium sulfate	Product/ingredient name	Result	Dose
4-nonylphenol, branched Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Rat - Oral - LD50 Rat - Oral - LD50 Sat - Oral - D50 Sat - Oral - LD50 Sa	parium sulfate	Rat - Oral - LD50	>5000 mg/kg
4-nonylphenol, branched Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Rat - Oral - LD50 Rat - Oral - LD50 Sat - Oral - D50 Sat - Oral - LD50 Sa	-	Rat - Dermal - LD50	0 0
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	4-nonylphenol, branched	Rabbit - Dermal - LD50	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	Rat - Oral - LD50	
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich Rat - Oral - LD50 Se0000 mg/kg	reaction products with tall-oil fatty acids and	Rat - Dermal - LD50	
C9-11-branched alkyl esters, C10-rich Rat - Oral - LD50 >60000 mg/kg xylene isomers mixture Rat - Oral - LD50 4.3 g/kg - Rabbit - Dermal - LD50 1.7 g/kg m-phenylenebis(methylamine) Rat - Oral - LD50 930 mg/kg - Rat - Male, Female - Dermal - LD50 >3100 mg/kg - Rat - Inhalation - LC50 Gas. 700 ppm [1 hours] Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)- Rat - Oral - LD50 2885 mg/kg - Rat - Dermal - LD50 2.980 mg/kg 4-tert-butyl phenol Rat - Oral - LD50 2.95 g/kg - Rabbit - Dermal - LD50 2.29 g/kg ethylbenzene Rat - Oral - LD50 3.5 g/kg - Rabbit - Dermal - LD50 17.8 g/kg - Rabbit - Dermal - LD50 17.8 mg/l [4 hours]	-	Rat - Oral - LD50	>2000 mg/kg
xylene isomers mixture		Rabbit - Dermal - LD50	16000 mg/kg
Rabbit - Dermal - LD50	-	Rat - Oral - LD50	>60000 mg/kg
Rat - Oral - LD50	xylene isomers mixture	Rat - Oral - LD50	4.3 g/kg
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-	Rabbit - Dermal - LD50	1.7 g/kg
LD50 Rat - Inhalation - LC50 Gas. Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy) Rat - Dermal - LD50 Rat - Oral - LD50 2885 mg/kg 4-tert-butyl phenol Rat - Oral - LD50 2980 mg/kg Rat - Oral - LD50 2.95 g/kg ethylbenzene Rat - Oral - LD50 3.5 g/kg Rat - Oral - LD50 Rat - Inhalation - LC50 Vapor Rat - Inhalation - LC50 Vapor	m-phenylenebis(methylamine)	Rat - Oral - LD50	
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	-		>3100 mg/kg
(2-aminomethylethyl)-ω- (2-aminomethylethoxy) Rat - Dermal - LD50 2980 mg/kg 4-tert-butyl phenol Rat - Oral - LD50 2.95 g/kg Rabbit - Dermal - LD50 2.29 g/kg ethylbenzene Rat - Oral - LD50 3.5 g/kg - Rabbit - Dermal - LD50 17.8 g/kg - Rat - Inhalation - LC50 Vapor 17.8 mg/l [4 hours]	-	Rat - Inhalation - LC50 Gas.	700 ppm [1 hours]
Rat - Dermal - LD50 2980 mg/kg 4-tert-butyl phenol Rat - Oral - LD50 2.95 g/kg 2.95 g/kg 2.29 g/kg	(2-aminomethylethyl)-ω-	Rat - Oral - LD50	2885 mg/kg
- Rabbit - Dermal - LD50 2.29 g/kg ethylbenzene Rat - Oral - LD50 3.5 g/kg - Rabbit - Dermal - LD50 17.8 g/kg - Rat - Inhalation - LC50 Vapor 17.8 mg/l [4 hours]	-	Rat - Dermal - LD50	2980 mg/kg
- Rabbit - Dermal - LD50 2.29 g/kg ethylbenzene Rat - Oral - LD50 3.5 g/kg - Rabbit - Dermal - LD50 17.8 g/kg - Rat - Inhalation - LC50 Vapor 17.8 mg/l [4 hours]	4-tert-butyl phenol	Rat - Oral - LD50	2.95 g/kg
Rabbit - Dermal - LD50 17.8 g/kg - Rat - Inhalation - LC50 Vapor 17.8 mg/l [4 hours]	-	Rabbit - Dermal - LD50	
- Rat - Inhalation - LC50 Vapor 17.8 mg/l [4 hours]	ethylbenzene	Rat - Oral - LD50	3.5 g/kg
- Rat - Inhalation - LC50 Vapor 17.8 mg/l [4 hours]	-	Rabbit - Dermal - LD50	17.8 g/kg
Det Out I DEO	-	Rat - Inhalation - LC50 Vapor	
	Polyamidoamine	Rat - Oral - LD50	>2 g/kg
3,6-diazaoctanethylenediamin Rabbit - Dermal - LD50 1465 mg/kg	3,6-diazaoctanethylenediamin	Rabbit - Dermal - LD50	1465 mg/kg
- Rat - Oral - LD50 1716 mg/kg	-	Rat - Oral - LD50	1716 mg/kg
Reaction products of Rat - Inhalation - LC50 Dusts and >5.08 mg/l [4 hours]	Reaction products of	Rat - Inhalation - LC50 Dusts and	>5.08 mg/l [4 hours]

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 11. Toxicological information

12-hydroxyoctadecanoic acid and	mists	
octadecanoic acid and		
1,3-phenylenedimethanamine		
3,6,9-triazaundecamethylenediamine	Rat - Oral - LD50	0.205 g/kg
-	Rabbit - Dermal - LD50	0.66 g/kg

Product Conclusion Skin corrosion/irritation

: There are no data available on the mixture itself.

Product/ingredient name	Species	Dose	Score
 nonylphenol, branched	Rabbit - Skin - Erythema/ Eschar	-	Irritation score: 4
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Human - Skin - Irritant	-	-
xylene isomers mixture	Rabbit - Skin - Moderate irritant	Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours	-
m-phenylenebis (methylamine)	Rat - Skin - Severe irritant	Duration of treatment/exposure: 4 hours Observation period: 4 hours	-

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

Serious eye damage/eye irritation

Product/ingredient name	Species	Dose	Score
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty	Rabbit - Eyes - Severe irritant	-	-
acids and triethylenetetramine			

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

Respiratory corrosion/irritation

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

Sensitization

<u> </u>		
Product/ingredient name	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Mouse - skin	Result: Sensitizing
m-phenylenebis(methylamine)	Mouse - skin OECD 429	Result: Sensitizing
3,6-diazaoctanethylenediamin	Guinea pig - skin OECD 406	Result: Sensitizing

Skin

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

Respiratory

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

Mutagenicity

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

Carcinogenicity

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

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Section 11. Toxicological information

Classification

Product/ingredient name	IARC
kylene isomers mixture	3
ethylbenzene	2B

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
√alc , not containing asbestiform fibres	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
Polyamidoamine	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 2

Aspiration hazard

Product/ingredient name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

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. May be harmful in contact with skin. Defatting to the skin.

May cause an allergic skin reaction.

Ingestion : May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

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

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Section 11. Toxicological information

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

Short term exposure

Potential immediate

effects

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ General

or dermatitis. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Suspected of causing cancer. Risk of cancer depends on duration and level of Carcinogenicity

exposure.

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)
AMERLOCK 2AL ALUMINUM CURE barium sulfate 4-nonylphenol, branched Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 1,2-Benzenedicarboxylic acid, di-C9-11-branched	4591.3 N/A 1300 2500	2846.8 2500 2140 2500	50704.0 N/A N/A N/A	65.1 N/A N/A N/A	8.4 N/A N/A N/A
reaction products with tall-oil fatty acids and	N/A	16000	N/A		N/A

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Section 11. Toxicological inforn	nation				
xylene isomers mixture	4300	1700	N/A	11	1.5
m-phenylenebis(methylamine)	930	2500	4500	N/A	N/A
Poly[oxy(methyl-1,2-ethanediyl)], α-	2885	2980	N/A	N/A	N/A
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-					
4-tert-butyl phenol	2950	2290	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
Phenol, 2-nonyl-, branched	500	N/A	N/A	N/A	N/A
Polyamidoamine	2500	N/A	N/A	N/A	N/A
3,6-diazaoctanethylenediamin	1716	1465	N/A	N/A	N/A
3,6,9-triazaundecamethylenediamine	205	660	N/A	N/A	N/A

Other information

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
-nonylphenol, branched	Acute - LC50	Fish	0.221 mg/l [96 hours]
	Acute - EC50	Crustaceans - Water flea - Moina macrocopa	0.044 mg/l [48 hours]
	Acute - EC50	Algae - Green algae - Raphidocelis subcapitata	0.04 mg/l [72 hours]
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10	Algae	1.78 mg/l [72 hours]
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	EC50	Algae	15 mg/l [72 hours]
4-tert-butyl phenol	Acute - EC50 - Fresh water	Algae - Green algae - Selenastrum capricornutum - Exponential growth phase	16.91 mg/l [72 hours]
ethylbenzene	Acute - EC50 - Fresh water Chronic - NOEC - Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	1.8 mg/l [48 hours] 1 mg/l
Phenol, 2-nonyl-, branched	Acute - LC50	Fish - Pleuronectes americanus	0.017 mg/l [96 hours]
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine		Fish	>100 mg/l [96 hours]

Conclusion/Summary

: Not available.

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 12. Ecological information

Persistence/degradability

Product/ingredient name	Test	Result	Dose / Inoculum
ethylbenzene	-	79% [10 days] - Readily	

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene isomers mixture Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	-	-	Readily Not readily
ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
	5.4	251.19 [ASTM E 1022-84]	Low
1,2-Benzenedicarboxylic	8.8	-	High
acid, di-C9-11-branched			
alkyl esters, C10-rich xylene isomers mixture	3.12	7.4 to 18.5	Low
m-phenylenebis	0.18	2.69	Low
(methylamine)			
4-tert-butyl phenol	3	67.61 [OECD 305 C]	Low
ethylbenzene	3.6	79.43	Low
3,6-diazaoctanethylenediamii	n -1.66 to -1.4	-	Low

Mobility in soil

Soil/Water partition

coefficient

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 13. Disposal considerations

emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	China	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	III	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.		Not applicable.

Additional information

: None identified. CN 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

Section 15. Regulatory information

China inventory (IECSC) : All components are listed or exempted.

References : Production Safety Law of the People's Republic of China

Code of Occupational Disease Prevention of the People's Republic of China

Environmental Protection Law of the People's Republic of China

Fire Control Law of the People's Republic of China

Regulations on the Control over Safety of Dangerous Chemicals

Occupational exposure limits for hazardous agents in the workplace chemical

hazardous agents (GBZ2.1)

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Product name AMERLOCK 2AL ALUMINUM CURE

Section 15. Regulatory information

Specification for classification and labelling of chemicals according to Part 1: General rules (GB 30000.1-2024)

Safety data sheet for chemical products - Content and order of sections (GB/T16483)

Guidance on the compilation of safety data sheet for chemical products (GB/T17519)

General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)

Section 16. Other information

History

Date of issue/Date of : 9 August 2025

revision

Version : 13

Date of previous issue : 3/17/2023

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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

ov Rail

UN = United Nations

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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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