SAFETY DATA SHEET

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



Date of issue/Date of revision 28 February 2017

Version 3.03

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Section 1. Identification		
Product code	: 00281124	
Product name	: AMERLOCK 400 HARDENER	
产品名称	: 高固态环氧漆400 固化剂	
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 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)	: 86 532 83889090	

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview

Liquid.

Characteristic.

Flammable liquid and vapor.

Toxic if inhaled. Harmful if swallowed or in contact with skin.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Suspected of causing cancer.

May cause respiratory irritation.

Very toxic to aquatic life with long lasting effects.

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

IF exposed or concerned: Get medical attention. IF INHALED: Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN (or hair): Immediately call a POISON CENTER or physician. IF ON SKIN: Call a POISON CENTER or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Immediately call a POISON CENTER or physician.

See Section 12 for environmental precautions.

Section 2. Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - 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 toxicity: 58.2% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 55.8%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Toxic if inhaled. Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Suspected of causing cancer. May cause respiratory irritation. 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. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it

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Section 2. Hazards identification

		before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	:	Store locked up. Store in a well-ventilated place. 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	:	Toxic if inhaled. Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. Prolonged or repeated contact may dry skin and cause irritation. Causes digestive tract burns. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Suspected of causing cancer. May cause respiratory irritation.
Symptoms related to the phy	ysic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following:
		pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing 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 effect	cts a	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 effects	:	Not available.

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Section 2. Hazards identification

Potential delayed effects	1	Not available.
Environmental hazards	:	Very toxic to aquatic life with long lasting effects.
Other hazards which do not result in classification	:	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
✓alc , not containing asbestiform fibres	10 - <25	14807-96-6
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	10 - <25	68082-29-1
ethylbenzene	1 - <10	100-41-4
nonylphenol	1 - <10	25154-52-3
xylene isomers mixture	1 - <10	1330-20-7
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2- aminomethylethoxy)-	1 - <10	9046-10-0
2-furfuryl alcohol	1 - <10	98-00-0
Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-	1 - <10	55349-01-4
3,6-diazaoctanethylenediamin Fatty Amine Carbohydrate Complex	1 - <10 1 - <10	112-24-3 SUB100691

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, 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.
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Section 4. First aid measures

Inhalation	: Toxic if inhaled. May cause respiratory irritation.
Skin contact	: Causes severe burns. May be harmful 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.
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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
ndication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Specific treatments Protection of first-aiders	 The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment. No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

Section 5. Fire-fighting measures

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Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. 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.

Section 6. Accidental release measures

Personal precautions, protect	tive	e 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	nta	ainment 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 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.
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Section 6. Accidental release measures

Section 7. Handling and storage

Precautions for safe : handling	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, : including any incompatibilities	Storage temperature: 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits		
F alc , not containing asbestiform fibres	GBZ-2 (China, 1/2002).		
	STEL: 2 mg/m ³ 15 minutes. Form:		
	Respirable dust		
	STEL: 4 mg/m ³ 15 minutes. Form: Total dust		
	GBZ 2.1 (China, 4/2007).		
	PC-TWA: 1 mg/m ³ 8 hours. Form:		
	respirable dust		
	PC-TWA: 3 mg/m ³ 8 hours. Form: total dust		
ethylbenzene	GBZ 2.1 (China, 4/2007).		
	PC-STEL: 150 mg/m ³ 15 minutes.		
	PC-TWA: 100 mg/m ³ 8 hours.		
xylene isomers mixture	GBZ 2.1 (China, 4/2007).		
	PC-STEL: 100 mg/m ³ 15 minutes.		
	PC-TWA: 50 mg/m ³ 8 hours.		
2-furfuryl alcohol	GBZ 2.1 (China, 4/2007). Absorbed		
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Section 8. Exposure controls/personal protection

			through skin. PC-STEL: 60 mg/m ³ 15 minutes. PC-TWA: 40 mg/m ³ 8 hours.
Recommended monitoring procedures	:		ay be required to determine the effectiveness ures and/or the necessity to use respiratory and be made to appropriate monitoring ance documents for methods for the
Appropriate engineering controls	:	or other engineering controls to keep v below any recommended or statutory l	e process enclosures, local exhaust ventilation vorker exposure to airborne contaminants imits. The engineering controls also need to s below any lower explosive limits. Use
Environmental exposure controls	-	they comply with the requirements of e	cess equipment should be checked to ensure environmental protection legislation. In some eering modifications to the process equipment to acceptable levels.
Individual protection measur	es		
Hygiene measures	:	eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should no	d to remove potentially contaminated clothing. t be allowed out of the workplace. Wash Ensure that eyewash stations and safety
Eye protection <u>Skin protection</u>	:	Chemical splash goggles and face shi	eld.
Hand protection	-	be worn at all times when handling che this is necessary. Considering the para check during use that the gloves are st should be noted that the time to breakt for different glove manufacturers. In the	complying with an approved standard should emical products if a risk assessment indicates ameters specified by the glove manufacturer, till retaining their protective properties. It through for any glove material may be different and case of mixtures, consisting of several gloves cannot be accurately estimated.
Gloves		nitrile neoprene	
Body protection		being performed and the risks involved before handling this product. When the wear anti-static protective clothing. Fo clothing should include anti-static over	-
Other skin protection	:		al skin protection measures should be selected d the risks involved and should be approved by ct.
Respiratory protection	:	hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use	known or anticipated exposure levels, the orking limits of the selected respirator. If a above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 28°C (82.4°F)
Material supports combustion.	: Yes.
Lower and upper explosive (flammable) limits	: Lower: 1.02% Upper: 3.08%
Relative density Solubility Viscosity	1.48Insoluble in the following materials: cold water.Not Applicable

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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicitv

Product/ingredient name	Result	Species	Dose	Exposure
ethylbenzene	LC50 Inhalation Vapor	Rat	4000 ppm	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-
xylene isomers mixture	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
,	LC50 Inhalation Vapor	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Poly[oxy(methyl-1,2-	LD50 Dermal	Rabbit	3 g/kg	-
ethanediyl)], α-(2-			0 0	
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			(China Page: 9/1

Section 11. Toxicological information

aminomethylethyl)-ω-(2-				
aminomethylethoxy)-				
	LD50 Oral	Rat	242 mg/kg	-
2-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	-
3,	LD50 Dermal	Rabbit	805 mg/kg	-
6-diazaoctanethylenediamin				
	LD50 Oral	Rat	2500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
viene isomers mixture	Skin - Moderate irritant	Rabbit		24 hours 500 mg	-

Sensitization

Not available.

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
Talc , not containing asbestiform fibres	Category 3	••	Respiratory tract irritation
2-furfuryl alcohol	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Route of exposure	Target organs
ethylbenzene 2-furfuryl alcohol	 	Not determined Not determined

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1
Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-	ASPIRATION HAZARD - Category 1
Fatty Amine Carbohydrate Complex	ASPIRATION HAZARD - Category 1

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Section 11. Toxicological information Information on the likely : Not available. routes of exposure Potential acute health effects Eye contact : Causes serious eye damage. Inhalation : Toxic if inhaled. May cause respiratory irritation. : Causes severe burns. May be harmful in contact with skin. Defatting to the skin. **Skin contact** May cause an allergic skin reaction. Ingestion : 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: 5 respiratory tract irritation coughing 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 effec	ts a	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ecte	<u>2</u>
General	-	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Section 11. Toxicological information

Carcinogenicity	1	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	Suspected of damaging the unborn child.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value	
Oral	659.2 mg/kg	
Dermal	1573.8 mg/kg	
Inhalation (gases)	14705.5 ppm	
Inhalation (vapors)	7.045 mg/l	
Inhalation (dusts and mists)	4.293 mg/l	

Other information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-, 3,6-diazaoctanethylenediamin. May produce an allergic reaction.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - Daphnia magna	21 days

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Section 12. Ecological information

Persistence/degradability				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
ethylbenzene xylene isomers mixture	-	-	Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.15	79.43	low
nonylphenol xylene isomers mixture	3.28 3.16	154.88 7.4 to 18.5	low low
2-furfuryl alcohol 3.	0.28 -1.66 to -1.4	-	low low
6-diazaoctanethylenediamin	-1.00 (0 -1.4	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: 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 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.

	China	UN	IMDG	ΙΑΤΑ
UN number	UN3470	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)	8 (3)
Packing group	11	II	II	II

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14. Transport information

Environmental	Yes. The	Yes. The	Yes.	Yes. The
hazards	environmentally	environmentally		environmentally
	hazardous substance	hazardous substance		hazardous substance
	mark is not required.	mark is not required.		mark is not required.
Marine pollutant	Not applicable.	Not applicable.	(Polyamide,	Not applicable.
substances			nonylphenol)	

Additional information

CN	: None identified.
UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$.
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.

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) General rule for classification and hazard communication of chemicals (GB13690) 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

<u>History</u>	
Date of issue/Date of revision	: 28 February 2017
Date of previous issue	: 11/17/2016
Version	: 3.03
	EHS

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Section 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

V Indicates information that has changed from previously issued version.

Notice to reader

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