SAFETY DATA SHEET

Pipeclad 5000 Epoxy (Part A) - White

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

Section 1. Identification

Product code : B62W560

GHS product identifier : Pipeclad 5000 Epoxy (Part A)

White

Product use : Industrial applications, Used by spraying.

Material uses : Paint or paint related material.

Company name

Mfg. in the U.S.A. and exported by: THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115

Imported by:

Sherwin Williams Asia Pacific

Building 11, Shibei One Center, No1401 Jiangchang

Road

Jing'an District, Shanghai 200436, China

Phone: +86 21 61937965 regulatory.asia@sherwin.com

Supplier Telephone number : (216) 566-2902

e-mail address of person

responsible for this SDS

: MSDS@sherwin.com

Emergency telephone

number

: 400-6267911 (24/7)

Hours of operation: Emergency contact available 24 hours a day

Section 2. Hazards identification

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

Emergency overview

Liquid.

White.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause cancer.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

None known. Please refer to the SDS for additional information.

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Section 2. Hazards identification

IF 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.

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 2
AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1

GHS label elements

Hazard pictograms









Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.

May cause an allergic skin reaction. Causes serious eye damage.

May cause 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: 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. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be

allowed out of the workplace.

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 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.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Physical and chemical

hazards

: No known significant effects or critical hazards.

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Section 2. Hazards identification

Health hazards

: Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause cancer. Suspected of damaging fertility or the unborn child.

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:

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

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.

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

Other hazards which do

not result in classification

: None known. Please refer to the SDS for additional information.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Hazardous ingredients

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number	EC number	Hazard classification
Phenol-Formaldehyde Polymer	≥25 - ≤50	9003-36-5	500-006-8	H315, H317, H319, H411
Phenol, 4-Nonyl-, Branched	≤10	84852-15-3	284-325-5	H302, H314, H318, H361, H400, H410
Epoxy Polymer	≤10	1675-54-3	216-823-5	H315, H317, H319, H411
Zinc Phosphate	≤3	7779-90-0	231-944-3	H400, H410
Organosilane Ester	≤3	2530-83-8	219-784-2	H316, H318
Zinc Oxide	≤3	1314-13-2	215-222-5	H316, H320, H400, H410
Titanium Dioxide	≤3	13463-67-7	236-675-5	H316, H351
Phenol, 2-nonyl-, branched	<1	91672-41-2	294-048-1	H302, H314, H318, H361, H400, H410
Crystalline Silica, non-respirable	≤0.3	14808-60-7	238-878-4	H350
Crystalline Silica, respirable powder	≤0.3	14808-60-7	238-878-4	H350, H372

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.

Section 4. First aid measures

First :	aid
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Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First aid measures

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes severe burns. May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

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

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 : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

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)

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO₂, powders, water spray or mist.

Unsuitable extinguishing media

: Do not use water jet.

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 dioxide carbon monoxide sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

Advice for firefighters

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

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. 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

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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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.

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Section 6. Accidental release measures

Precautionary measures to prevent the occurrence of secondary disasters

: Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Precautions for operating

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

Advice on general occupational hygiene 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage: 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Zinc Oxide	GBZ 2.1 (China, 11/2022) PC-TWA 8 hours: 3 mg/m³. PC-STEL 15 minutes: 5 mg/m³.
Titanium Dioxide	GBZ 2.1 (China, 11/2022) PC-TWA 8 hours: 8 mg/m³. Form: dust.
Crystalline Silica, non-respirable	GBZ 2.1 (China, 11/2022) G1 (crystalline). PC-TWA 8 hours: 1 mg/m³. Form: total dust, 10% ≤ free SiO2 ≤ 50%. PC-TWA 8 hours: 0.7 mg/m³. Form: total dust, 50% < free SiO2 ≤ 80%. PC-TWA 8 hours: 0.5 mg/m³. Form: total dust, free SiO2 > 80%.
Crystalline Silica, respirable powder	GBZ 2.1 (China, 11/2022) G1 (crystalline). PC-TWA 8 hours: 0.7 mg/m^3 . Form: respirable dust, $10\% \le \text{free SiO2} \le 50\%$. PC-TWA 8 hours: 0.3 mg/m^3 . Form: respirable dust, $50\% \le \text{free SiO2} \le 80\%$.

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Section 8. Exposure controls/personal protection

PC-TWA 8 hours: 0.2 mg/m³. Form: respirable dust, free SiO2 \geq 80%.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

: 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.

Personal protective equipment

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/face protection Skin protection

: Use safety eyewear designed to protect against splash of liquids.

Hand protection Gloves

: Wear suitable gloves tested to EN374.

: Short Term Exposure less than 10 minutes Continuous use Nitrile gloves. Hazardous ingredients Section 3 For more than 4 hours of protection in the presence of Ethyl methyl ketone or Methyl ethyl ketone Acetone or Methyl isobutyl ketone Butyl gloves 0.7mm For more than 4 hours of protection in the presence of Aromatic solvent use polyvinyl alcohol (PVA) gloves.

Long Term Exposure Spill / For prolonged or repeated handling, use PE / PE Laminate gloves > 8 hours (breakthrough time).

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection

- : Personnel should wear antistatic clothing made of natural fibers or of hightemperature-resistant synthetic fibers.
- : 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.

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Section 8. Exposure controls/personal protection

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection: If workers are exposed to concentrations above the exposure limit, they must use

appropriate, certified respirators.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance and physical state

Physical state : Liquid.
Color : White.
Odor : Solvent.
Odor threshold : Not available.
pH : Not applicable.
Melting point/freezing point : Not available.
Boiling point or initial : Not available.

boiling point and boiling

range

Flash point : Closed cup: 94°C (201.2°F) [Pensky-Martens Closed Cup]

Evaporation rate : Not available. **Lower and upper explosion** : Not available.

limit/flammability limit

Vapor pressure : Not available.

Relative vapor density : Not available.

Relative density : 1.55 Solubility(ies) :

Media	Result
cold water	Not soluble

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)

VOC content : 9 g/L Heat of combustion : 0.266 kJ/g

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.

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Section 10. Stability and reactivity

Conditions to avoid : No specific data.

: Avoid high temperature.

Incompatible materials: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name Result

4-nonylphenol, branched Rat - Oral - LD50

1300 mg/kg

<u>Toxic effects</u>: Liver - Other changes Blood - Hemorrhage Gross Metabolite Changes - Weight loss or decreased weight

gain

Epoxy Polymer Rabbit - Dermal - LD50

20 g/kg

<u>Toxic effects</u>: Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea Gross Metabolite Changes - Weight loss or decreased weight gain

Organosilane Ester Rat - Oral - LD50

7.01 g/kg

Toxic effects: Behavioral - Somnolence (general depressed

activity) Behavioral - Coma

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name Result

Phenol-Formaldehyde Polymer Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 uL

4-nonylphenol, branched Rabbit - Skin - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 500 mg

Epoxy Polymer Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Organosilane Ester Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Zinc Oxide Rabbit - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours Amount/concentration applied: 500 mg

Titanium Dioxide Human - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 72 hours <u>Amount/concentration applied</u>: 300 ug I

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Section 11. Toxicological information

Conclusion/Summary [Product] : Not available

Serious eye damage/eye irritation

Product/ingredient name Result

4-nonylphenol, branched Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 2 mg

Organosilane Ester Rabbit - Eyes - Mild irritant

Amount/concentration applied: 100 mg

Zinc Oxide Rabbit - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

Conclusion/Summary [Product]: Not available.

Respiratory corrosion/irritation

Not available.

Epoxy Polymer

Conclusion/Summary [Product]: Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product]: Not available.

Germ Cell Mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Classification

Product/ingredient name IARC

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Section 11. Toxicological information

Epoxy Polymer3Titanium Dioxide2BCrystalline Silica, non-respirable1Crystalline Silica, respirable powder1

Reproductive toxicity

Not available.

Conclusion/Summary [Product]: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

Crystalline Silica, respirable powder SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) (inhalation) - Category 1

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes severe burns. May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

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:

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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Section 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

Not available.

Conclusion/Summary [Product] : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of 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)
Pipeclad 5000 Epoxy (Part A)	10584.3	N/A	N/A	N/A	N/A
4-nonylphenol, branched	1300	N/A	N/A	N/A	N/A
Epoxy Polymer	N/A	20000	N/A	N/A	N/A
Organosilane Ester	7010	N/A	N/A	N/A	N/A
Phenol, 2-nonyl-, branched	500	N/A	N/A	N/A	N/A

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Section 12. Ecological information

Toxicity

Product/ingredient name

4-nonylphenol, branched

Zinc Phosphate

Zinc Oxide

Titanium Dioxide

Result

Chronic - NOEC - Fresh water

Fish - Fathead minnow - Pimephales promelas - Embryo

Age: <24 hours 7.4 μg/l [33 days] Effect: Mortality

Acute - LC50 - Marine water

Fish - Winter flounder - Pleuronectes americanus - Larvae

Age: 2 days 17 µg/l [96 hours] Effect: Mortality

Acute - EC50 - Marine water

Algae - Diatom - Skeletonema costatum

0.027 mg/l [96 hours] Effect: Population

Chronic - EC10 - Marine water

Algae - Diatom - Skeletonema costatum

0.012 mg/l [96 hours] Effect: Population

Chronic - NOEC - Fresh water

Crustaceans - Scud - Gammarus fossarum - Adult

5 μg/l [21 days] <u>Effect</u>: Reproduction **Acute - EC50**

OECD

Crustaceans - Water flea - Moina macrocopa

0.044 mg/l [48 hours] Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Age: 180 days; Weight: 1.5 g

90 µg/l [96 hours] Effect: Mortality

Acute - LC50 - Fresh water

Daphnia - Water flea - Daphnia magna - Neonate

Age: <24 hours 98 μg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

Weight: 0.78 g 1.1 ppm [96 hours] Effect: Mortality

Acute - IC50 - Fresh water

Algae - Green algae - Raphidocelis subcapitata - Exponential

growth phase 46 µg/l [72 hours] Effect: Population

Acute - LC50 - Marine water

Fish - Mummichog - Fundulus heteroclitus

>1000 mg/l [96 hours] Effect: Mortality

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Section 12. Ecological information

Conclusion/Summary [Product] : Not available.

Persistence/degradability

Not available.

Conclusion/Summary [Product] : Not available.

Bioaccumulation/Accumulation

Product/ingredient name	LogPow	BCF	Potential
4-nonylphenol, branched	-	740	High
Zinc Phosphate	-	60960	High
Zinc Oxide	-	28960	High

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 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.
Do not incinerate closed container. Incinerate in a licensed, high-temperature,

Section 14. Transport information

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hazardous-waste incinerator.

B62W560 Pipeclad 5000 Epoxy (Part A) - White Section 14. Transport information China **ADR IMDG IATA UN number** UN3066 UN3066 UN3066 UN3066 **UN** proper PAINT. Marine **PAINT** PAINT. Marine PAINT pollutant (Phenol, pollutant (Phenol, shipping name 4-Nonyl-, Branched, 4-Nonyl-, Branched, Zinc Phosphate) Zinc Phosphate) 8 Transport Hazard 8 8 Class(es)/Label(s) Ш Ш Ш Packing group Ш **Environmental** Yes. Yes. Yes. Yes. The

Additional information

hazards/Marine

pollutant

China : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5

kg.

Emergency schedules F-A, S-B

ADR : The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg.

Tunnel code E

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5

kg.

Emergency schedules F-A, S-B

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.

Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Incompatible materials: No specific data.

Transport in bulk according : Not available.

to IMO instruments

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

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environmentally hazardous substance

mark is not required.

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Section 15. Regulatory information

National inventory

: Australia inventory (AIIC): Not determined.

Canada inventory: Not determined.

China inventory (IECSC): Not determined.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

Korea inventory: Not determined.

Korea inventory: Not determined. **Mexico inventory**: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined. Russian Federation inventory: Not determined.

Thailand inventory: Not determined. **Turkey inventory**: Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

United States inventory (TSCA 8b): Not determined.

Vietnam inventory: Not determined.

List of Goods banned for Importing

None of the components are listed.

Drug Precursors Requiring an Import/Export License

None of the components are listed.

Inventory of Hazardous Chemicals

Ingredient name	CAS number	Status	Reference number
Phenol, 4-nonyl-,branched	84852-15-3	Listed	2800

List of Explosive Precursors

None of the components are listed.

List of Goods banned for Exporting

None of the components are listed.

List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

Catalogue and classification of drug precursor chemicals

Category	Ingredient name	%	Status
Category 3	toluene	≤0.1	Listed

Inventory of Highly Toxic Articles

None of the components are listed.

Catalogue of Hazardous Chemicals of Priority Management

Listed

Listed

Listed

Listed

China MEE 12 Registration number

Not applicable.

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Section 16. Other information

History

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

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)

N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
SKIN CORROSION/IRRITATION - Category 1B	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Full text of classifications

[CLP/GHS]

: SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

Full text of abbreviated H

statements

: H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H350 - May cause cancer.

H361 - Suspected of damaging fertility or the unborn child.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep

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Section 16. Other information

comfortable for breathing. Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

P363 - Wash contaminated clothing before reuse.

P305 + P351 + P338, P310 - 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.

P405 - Store locked up.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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