



SAFETY DATA SHEET (SDS)

Revision date 23-March-2016

Version 1

Section 1: IDENTIFICATION

Product identifier

Product Trade Name PENOFIN RENEWALL ELASTOMERIC COATING – SEAL

Product Description

Elastomeric coating for use on wood and concrete

Recommended use of the chemical and restrictions on use

Paint, Coatings

Performance Coatings Inc.

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Ukiah, CA 95482
Phone: (707) 462-3023
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E-mail address

mail@penofin.com

Emergency telephone number

Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

Classification

Skin sensitization

Category 1

Label elements



Signal word

WARNING

HAZARD STATEMENTS

May cause an allergic skin reaction

PREVENTION

Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

RESPONSE

Get medical advice/attention if you feel unwell.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Inhalation

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

STORAGE

Keep container tightly closed.

DISPOSAL

Dispose of contents/containers in accordance with local regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Not applicable.

OTHER HAZARDS

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

UNKNOWN ACUTE TOXICITY

0% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | weight-% |
|-----------------------------------|---------------|-----------------|
| Titanium dioxide | 13463-67-7 | >25 |
| 3-Iodo-2-propynyl butyl carbamate | 55406-53-6 | 0.2 - 1 |
| Propylene Glycol | 57-55-6 | 1- 2 |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: FIRST AID MEASURES

First Aid Measures

General advice

Get medical advice/attention if you feel unwell.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Inhalation

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES**Suitable extinguishing media**

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

Specific hazards arising from the chemical

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by skin contact.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up**Methods for containment**

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials

Strong oxidizing agents.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Components with occupational exposure limits

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------------------|---------------------------|--------------------------------------|------------------------------|
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ total dust | IDLH: 5000 mg/m ³ |
| Propylene glycol 57-55-6 | TWA: 10 mg/m ³ | - | - |

Appropriate engineering controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand Protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. 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.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal Protection

No information available

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--------------------------------------|---------------------------|
| Form | liquid |
| Appearance: | |
| Odor | Slight |
| Color | Dark brown |
| Odor Threshold | Not determined |
| pH value | 8.5 – 9.5 |
| Melting point/freezing point | Not determined |
| Boiling point / boiling range | Not determined |
| Flash point | 96 °C (205 °F) |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not applicable |
| Vapor Pressure | Not determined |
| Vapor density | Not determined |
| Density (lbs per US gallon) | 10.99 |
| Solubility in water | Soluble |
| Auto ignition temperature | Product not self-igniting |
| Viscosity Krebs | 140 – 145 KU |
| Material VOC | 0.32 lb/gal |
| Coatings VOC (-water) | 0.78 lb/gal |

Other information

Section 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Hazardous polymerization | None under normal processing. |
| Conditions to avoid | Heat, flames and sparks. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous Decomposition Products | Carbon monoxide. Carbon dioxide (CO ₂). |

Section 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|---------------------|-------------------------------------|
| Eye contact | Not applicable |
| Skin Contact | May cause an allergic skin reaction |
| Ingestion | Not applicable |
| Inhalation | Not applicable |

Numerical measures of toxicity - Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|-----------------------|-----------------------|------------------|
| Titanium dioxide 13463-67-7 | > 10000 mg/kg (Rat) | > 10000 mg/kg (Rat) | >6.82 mg/l (Rat) |
| 3-Iodo-2-propynyl butyl carbamate 55406-53-6 | = 1100 mg/kg (Rat) | - | - |
| Propylene glycol 57-55-6 | 20,000 mg/kg (Rat) | 20,800 mg/kg (Rabbit) | - |

UNKNOWN ACUTE TOXICITY 0% of the mixture consists of ingredient(s) of unknown toxicity.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

According to IARC, Volume 93, no significant exposure to primary particles of titanium dioxide is thought to occur from use in paints since the pigment is bound to other materials.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--------------------------------|-------|----------|-----|------|
| Titanium dioxide 13463-67-7 | | Group 2B | | X |

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans.

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present.

| | |
|---|-------------------------------------|
| Skin corrosion/irritation | Not applicable |
| Serious eye damage/eye irritation | Not applicable |
| Skin sensitization | May cause an allergic skin reaction |
| Respiratory sensitization | Not applicable |
| Germ cell mutagenicity | Not applicable |
| Carcinogenicity | Not applicable |
| Aspiration Hazard | Not applicable |
| Reproductive Toxicity | Not applicable |
| Specific target organ toxicity (single exposure) | Not applicable |
| Specific target organ toxicity (repeated exposure) | Not applicable |

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Environmental precautions

Prevent product from entering drains.

Marine pollutant

This material meets the definition of a marine pollutant

Persistence and degradability

No information available

Bioaccumulation

No information available

Mobility

No information available

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

Section 14: TRANSPORT INFORMATION

| | <u>DOT</u> | <u>IMDG</u> | <u>IATA</u> |
|---------------------------|---|---|---|
| 14.1 UN/ID no | UN3082 | UN3082 | UN3082 |
| 14.2 Proper shipping name | Environmentally hazardous substances, liquid, n.o.s 3-Iodo-2-propynyl butylcarbamate | Environmentally hazardous substances, liquid, n.o.s 3-Iodo-2-propynyl butylcarbamate | Environmentally hazardous substances, liquid, n.o.s 3-Iodo-2-propynyl butylcarbamate |
| 14.3 Hazard Class | 9 | 9 | 9 |
| 14.4 Packing Group | III | III | III |
| 14.5 Environmental hazard | Yes | | |
| Marine pollutant | This material meets the definition of a marine pollutant | | |
| Marine pollutant | 3-Iodo-2-propynyl butylcarbamate | | |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

Section 15: REGULATORY INFORMATION

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

All components are listed or exempt from listing.

DSL - Canadian Domestic Substances List

All components are listed or exempt from listing

US Federal Regulations

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute health hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

US State Regulations

Rule 66 status of product

Not photochemically reactive.

California Proposition 65

Titanium Dioxide 13463-67-7

EPA Label information

EPA Pesticide registration number: Not applicable

U.S. State Right-to-Know Regulations

| Chemical Name |
|--|
| Water 7732-18-5 |
| Proprietary Non-Hazardous Ingredient - Proprietary CAS |
| Proprietary Non-Hazardous Ingredient - Proprietary CAS |
| Titanium dioxide 13463-67-7 |
| Proprietary Non-Hazardous Ingredient - Proprietary CAS |
| 3-Iodo-2-propynyl butyl carbamate 55406-53-6 |
| Propylene Glycol 57-55-6 |

Section 16: OTHER INFORMATION

HMIS

| | |
|---------------------|---|
| Health hazards | 2 |
| Flammability | 1 |
| Physical hazards | 0 |
| Personal Protection | X |

Prepared By Performance Coatings Inc.

Revision date First Version
Revision Note No information available

Disclaimer

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. **UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

End of Safety Data Sheet