



**SAFETY DATA SHEET
PHILLYCLAD 8 RESIN**

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name PHILLYCLAD 8 RESIN
Product number Y0017

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

Identified uses Resin.

1.3. Details of the supplier of the safety data sheet

Supplier

ITW Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
mail@itwpp.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1235 239670

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

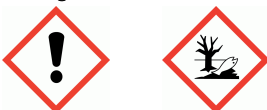
Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 2 - H411

Human health The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.

2.2. Label elements

Pictogram



Signal word

Warning

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| | |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statements | H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. |
| Precautionary statements | P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Contains | EPOXY RESIN (Number average MW <= 700) |
| Supplementary precautionary statements | P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P501 Dispose of contents/ container in accordance with national regulations. |

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | |
|---------------------------------------------------|--------------------------------------------------|
| EPOXY RESIN (Number average MW <= 700) | 60-100% |
| CAS number: 25068-38-6 | EC number: 500-033-5 |
| | REACH registration number: 01-2119456619-26-0000 |
| Classification | |
| Skin Irrit. 2 - H315 | |
| Eye Irrit. 2 - H319 | |
| Skin Sens. 1 - H317 | |
| Aquatic Chronic 2 - H411 | |
| TITANIUM DIOXIDE | <1% |
| CAS number: 13463-67-7 | EC number: 236-675-5 |
| | REACH registration number: 01-2119489379-17-0000 |
| Classification | |
| Not Classified | |

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| General information | Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
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| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. |
| Ingestion | Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately. |
| Skin contact | Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|-------------------------------------------------------------------------------------------------------------|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
|----------------------------|-------------------------------------------------------------------------------------------------------------|

4.3. Indication of any immediate medical attention and special treatment needed

| | |
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| Notes for the doctor | No specific recommendations. If in doubt, get medical attention promptly. |
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | Extinguish with foam, carbon dioxide or dry powder. |
|-------------------------------------|-----------------------------------------------------|

5.2. Special hazards arising from the substance or mixture

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|-------------------------|------------------------------|
| Specific hazards | Irritating gases or vapours. |
|-------------------------|------------------------------|

5.3. Advice for firefighters

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|-----------------------------------------------|---------------------------------------------------------------------|
| Protective actions during firefighting | Keep up-wind to avoid fumes. Avoid breathing fire gases or vapours. |
|-----------------------------------------------|---------------------------------------------------------------------|

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|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions | Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6.2. Environmental precautions

| | |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6.3. Methods and material for containment and cleaning up

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|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6.4. Reference to other sections

| | |
|------------------------------------|-------------------------------------------------------------------------------|
| Reference to other sections | Wear protective clothing as described in Section 8 of this safety data sheet. |
|------------------------------------|-------------------------------------------------------------------------------|

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Usage precautions

Use only in well-ventilated areas. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Handle and open container with care. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): 10 mg/m³ total dust

Ingredient comments

No exposure limits known for ingredient(s).

EPOXY RESIN (Number average MW <= 700) (CAS: 25068-38-6)

DNEL

Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day
Workers - Inhalation; Short term systemic effects: 12.25 mg/m³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Wear protective gloves made of the following material: Rubber or plastic. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body protection

Wear chemical protective suit.

Hygiene measures

Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product.

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Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------------------------|---------------------------------------------|
| Appearance | Viscous liquid. |
| Colour | White. |
| Odour | Slight. |
| Melting point | N/D°C |
| Initial boiling point and range | >260°C @ |
| Flash point | > 204.4°C PMCC (Pensky-Martens closed cup). |
| Evaporation rate | <<1 (BuAc=1) |
| Vapour pressure | 0.03mmHg @ °C |
| Vapour density | >1 |
| Relative density | 1.18 @ 20 °C°C |
| Solubility(ies) | Slightly soluble in water. |

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Acids. Strong oxidising agents. Amines.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not available.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Avoid contact with the following materials: Strong oxidising agents. Strong acids. Amines. Strong mineral acids. Alkalis - organic.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Vapours/gases/fumes of: Acids - organic. Aldehydes.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

| | |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact | Irritating to skin. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive individuals. |
| Eye contact | Irritating to eyes. A single exposure may cause the following adverse effects: Corneal damage. |

SECTION 12: Ecological Information

| | |
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| Ecotoxicity | Avoid release to the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------|

12.1. Toxicity

| | |
|-----------------|----------------------------------|
| Toxicity | Very toxic to aquatic organisms. |
|-----------------|----------------------------------|

12.2. Persistence and degradability

| | |
|--------------------------------------|---------------------------------------------------------|
| Persistence and degradability | There are no data on the degradability of this product. |
|--------------------------------------|---------------------------------------------------------|

12.3. Bioaccumulative potential

| | |
|----------------------------------|---------------------------------------|
| Bioaccumulative potential | No data available on bioaccumulation. |
|----------------------------------|---------------------------------------|

12.4. Mobility in soil

| | |
|-----------------|------------------------------------------------------------------|
| Mobility | Do not discharge into drains or watercourses or onto the ground. |
|-----------------|------------------------------------------------------------------|

12.5. Results of PBT and vPvB assessment

| | |
|-------------------------------------------|-------------------------------------------------------------------------|
| Results of PBT and vPvB assessment | This product does not contain any substances classified as PBT or vPvB. |
|-------------------------------------------|-------------------------------------------------------------------------|

12.6. Other adverse effects

| | |
|------------------------------|----------------|
| Other adverse effects | Not available. |
|------------------------------|----------------|

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| General information | When handling waste, the safety precautions applying to handling of the product should be considered. |
| Disposal methods | Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. |
| Waste class | 08 04 99 |

SECTION 14: Transport information

| | |
|----------------|-----------------------------|
| General | No other information known. |
|----------------|-----------------------------|

14.1. UN number

| | |
|-------------------------|------|
| UN No. (ADR/RID) | 3082 |
| UN No. (IMDG) | 3082 |
| UN No. (ICAO) | 3082 |

14.2. UN proper shipping name

PHILLYCLAD 8 RESIN

| | |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| Proper shipping name (ADR/RID) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)) |
| Proper shipping name (IMDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)) |
| Proper shipping name (ICAO) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)) |
| Proper shipping name (ADN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)) |

14.3. Transport hazard class(es)

| | |
|----------------------------|---|
| ADR/RID class | 9 |
| ADR/RID label | 9 |
| IMDG class | 9 |
| ICAO class/division | 9 |

Transport labels



14.4. Packing group

| | |
|------------------------------|-----|
| ADR/RID packing group | III |
| IMDG packing group | III |
| ICAO packing group | III |

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

| | |
|-----------------------------------------------|----------|
| EmS | F-A, S-F |
| Emergency Action Code | •3Z |
| Hazard Identification Number (ADR/RID) | 90 |
| Tunnel restriction code | (E) |

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU legislation | Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

| | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Revision date | 06/04/2018 |
| Revision | 7 |
| Supersedes date | 09/05/2016 |
| Hazard statements in full | H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.