



**SAFETY DATA SHEET
PHILLYCLAD 8 HARDENER**

1. Identification

Product identifier

Product name PHILLYCLAD 8 HARDENER

Product number Y0018

Recommended use of the chemical and restrictions on use

Application Hardener.

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

Emergency telephone number

Emergency telephone +44 (0) 1235 239670

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361 STOT SE 3 - H335

Environmental hazards Aquatic Chronic 3 - H412

Label elements

Pictogram



Signal word

Danger

Hazard statements

H317 May cause an allergic skin reaction.
H302+H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

PHILLYCLAD 8 HARDENER

Precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe vapor/ spray.
 P261 Avoid breathing vapor/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P310 If swallowed: Immediately call a poison center/ doctor.
 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
 P302+P352 If on skin: Wash with plenty of water.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 If exposed or concerned: Get medical advice/ attention.
 P312 Call a poison center/ doctor if you feel unwell.
 P321 Specific treatment (see medical advice on this label).
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P363 Wash contaminated clothing before reuse.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

DIETHYLENETRIAMINE, TRIETHYLENETETRAMINE, 4,4'-ISOPROPYLIDENEDIPHENOL

Other hazards

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

3. Composition/information on ingredients

Mixtures

TRIETHYLENETETRAMINE	30-60%
CAS number: 112-24-3	
Classification	
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	

PHILLYCLAD 8 HARDENER

DIETHYLENETRIAMINE	30-60%
CAS number: 111-40-0	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
4,4'-ISOPROPYLIDENEDIPHENOL	10-30%
CAS number: 80-05-7	
Classification	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Repr. 2 - H361f	
STOT SE 3 - H335	

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

4. First-aid measures

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).
Inhalation	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. 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.

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.
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Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemicals.
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Special hazards arising from the substance or mixture

Specific hazards	In case of fire, toxic and corrosive gases may be formed.
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PHILLYCLAD 8 HARDENER

Advice for firefighters

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

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapors/spray and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate.

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.

Methods and material for containment and cleaning up

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 labeled with correct contents and hazard symbol.

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

7. Handling and storage

Precautions for safe handling

Usage precautions Use only in well-ventilated areas. Handle and open container with care. Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapors. Avoid inhalation of vapors/spray and contact with skin and eyes. Corrosive. Prolonged contact causes serious eye and tissue damage. Do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator.

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).

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Ingredient comments WEL = Workplace Exposure Limits

Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate general and local exhaust ventilation.

PHILLYCLAD 8 HARDENER

Eye/face protection	The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.
Hand protection	Use protective gloves. It is recommended that gloves are made of the following material: Neoprene. It is recommended that gloves are made of the following material: Butyl rubber. It is recommended that gloves are made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. 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. Change work clothing daily before leaving workplace.
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 OSHA 1910.134.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Black.
Odor	Ammonia.
pH	pH (diluted solution): 11.1 5% soln
Melting point	N/D°C
Initial boiling point and range	>232.22°C @
Flash point	>93.3°C
Evaporation rate	<<1 (BuAc=1)
Vapor pressure	<0.05mmHg @ °C
Vapor density	>1
Relative density	1.06 @ °C
Solubility(ies)	Soluble in water.
Volatility	<25 g/L

10. Stability and reactivity

Reactivity	Strong oxidizing agents. Acids. Inorganic nitrates. Organic peroxides/hydroperoxides.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Not available.

PHILLYCLAD 8 HARDENER

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.
Materials to avoid	Avoid contact with oxidizing agents. Acids. Inorganic nitrates. Organic peroxides/hydroperoxides. Inorganic peroxides.
Hazardous decomposition products	Fire or high temperatures create: Nitrous gases (NOx). Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO ₂). Vapours/gases/fumes of: Ammonia or amines. Aldehydes. Nitric acid (HNO ₃).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

General information	Corrosive. Prolonged contact causes serious eye and tissue damage. Possible risk of impaired fertility.
Inhalation	Irritating to respiratory system.
Ingestion	May cause discomfort if swallowed. Corrosive. Small amounts may cause serious damage.
Skin Contact	Corrosive. Prolonged contact causes serious tissue damage. May cause sensitisation by skin contact. May cause sensitization or allergic reactions in sensitive individuals.
Eye contact	This product is strongly corrosive. Causes severe burns. Immediate first aid is imperative.
Acute and chronic health hazards	Possible risk of impaired fertility.

12. Ecological Information

Ecotoxicity	Avoid release to the environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Acute toxicity - fish	LC ₅₀ , 96 hours: 332mg/L (Pimephales promelas) mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 17mg/l (Daphnia magna) mg/l, Daphnia magna
<u>Persistence and degradability</u>	
Persistence and degradability	There are no data on the degradability of this product.
<u>Bioaccumulative potential</u>	
Bio-Accumulative Potential	No data available on bioaccumulation.
<u>Mobility in soil</u>	
Mobility	Do not discharge into drains or watercourses or onto the ground.
<u>Other adverse effects</u>	
Other adverse effects	Not available.

13. Disposal considerations

PHILLYCLAD 8 HARDENER

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

14. Transport information

UN Number

UN No. (TDG)	3267
UN No. (IMDG)	3267
UN No. (ICAO)	3267
UN No. (DOT)	3267

UN proper shipping name

Proper shipping name (TDG)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Proper shipping name (IMDG)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Proper shipping name (ICAO)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Proper shipping name (DOT)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

Transport hazard class(es)

TDG class	8
TDG label(s)	8
IMDG Class	8
ICAO class/division	8

Transport labels



Packing group

TDG Packing Group	II
IMDG packing group	II
ICAO packing group	II
DOT packing group	II

Special precautions for user

EmS	F-A, S-B
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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

15. Regulatory information

PHILLYCLAD 8 HARDENER

16. Other information

Revision date	4/6/2018
Revision	8
Supersedes date	5/6/2016
Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn child. H361f Suspected of damaging fertility. H412 Harmful 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.