SAFETY DATA SHEET
PHILLYMASTIC TG-7B PASTE HARDENER

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

1.1. Product identifier

Product name          PHILLYMASTIC TG-7B PASTE HARDENER
Product number        Y0014

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

Identified uses       Hardener.

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 239 670 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards       Not Classified
Health hazards          Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards   Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram

Signal word            Danger
Hazard statements      H314 Causes severe skin burns and eye damage.
                      H317 May cause an allergic skin reaction.
                      H412 Harmful to aquatic life with long lasting effects.
PHILLYMastic TG-7B Paste Hardener

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

TRIETHYLENETETRAMINE, Terpineol, p-mentha-1,4(8)-diene

Supplementary precautionary statements

P260 Do not breathe vapour/ spray.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P405 Store locked up.

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

<table>
<thead>
<tr>
<th>Silica Sand</th>
<th>60-100%</th>
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<tbody>
<tr>
<td>CAS number: 14808-60-7</td>
<td>EC number: 238-878-4</td>
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<tr>
<td>Classification</td>
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<table>
<thead>
<tr>
<th>TRIETHYLENETETRAMINE</th>
<th>10-30%</th>
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<tr>
<td>CAS number: 112-24-3</td>
<td>EC number: 203-950-6</td>
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<tr>
<td>Classification</td>
<td>Acute Tox. 4 - H312</td>
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<tr>
<td></td>
<td>Skin Corr. 1B - H314</td>
</tr>
<tr>
<td></td>
<td>Eye Dam. 1 - H318</td>
</tr>
<tr>
<td></td>
<td>Skin Sens. 1 - H317</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 3 - H412</td>
</tr>
</tbody>
</table>
PHILLYMASTIC TG-7B PASTE HARDENER

Terpineol  1-5%
CAS number: 8000-41-7  EC number: 232-268-1

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

p-mentha-1,4(8)-diene  1-5%
CAS number: 586-62-9
M factor (Acute) = 1  M factor (Chronic) = 1

Classification
Skin Sens. 1B - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

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  Show this safety data sheet to the doctor in attendance Do not breathe vapour/spray. Avoid contact with eyes.

Inhalation  Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion  Do not induce vomiting. Give plenty of water to drink. Get medical attention.

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

Notes for the doctor  No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media  Extinguish with the following media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards  Avoid breathing fire gases or vapours.

5.3. Advice for firefighters
PHILLYMASTIC TG-7B PASTE HARDENER

**Protective actions during firefighting**

Do not use water jet as an extinguisher, as this will spread the fire.

**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**

**Personal precautions**

Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

**6.2. 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**

**Methods for cleaning up**

Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

**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

**7.1. Precautions for safe handling**

**Usage precautions**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Avoid contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions**

Store in closed original container at temperatures between 15°C and 25°C. Store in tightly-closed, original container. Keep container tightly closed. 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**

**SILICA SAND**

Long-term exposure limit (8-hour TWA): WEL 0.3 mg/m³ Resp Dust, HK

WEL = Workplace Exposure Limit

**Ingredient comments**

WEL = Workplace Exposure Limits

**TRIETHYLENETETRAMINE (CAS: 112-24-3)**

**DNEL**

Workers - Inhalation; Long term systemic effects: 1 mg/m³

Workers - Inhalation; Short term systemic effects: 5380 mg/m³

Workers - Dermal; Long term systemic effects: 0.57 mg/kg/day
PHILLYMASTIC TG-7B PASTE HARDENER

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. 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 apron or protective clothing in case of contact.

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 European Standard EN140.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Colourless to pale yellow.

Odour
Characteristic.

pH
pH (concentrated solution): 7 @ 25 ºC

Initial boiling point and range
204°C @

Flash point
118°C

Upper/lower flammability or explosive limits
Lower flammable/explosive limit: 1.0 Upper flammable/explosive limit: 3.6

Relative density
1.6 @ 20 ºC

Solubility(ies)
Miscible with water.

9.2. Other information

Other information
Not available.

SECTION 10: Stability and reactivity
PHILLYMASTIC TG-7B PASTE HARDENER

10.1. Reactivity
Reactivity
Strong oxidising agents.

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 excessive heat for prolonged periods of time.

10.5. Incompatible materials
Materials to avoid
Avoid contact with oxidising agents. Nitrous acid and other nitrosating agents.

10.6. Hazardous decomposition products
Hazardous decomposition products
Fire or high temperatures create: Nitrous gases (NOx). Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Vapours/gases/fumes of: Ammonia or amines.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - dermal
ATE dermal (mg/kg) 4,464.29

Skin contact
Corrosive. Prolonged contact causes serious tissue damage. May cause sensitisation by skin contact.

Eye contact
This product is strongly corrosive. Immediate first aid is imperative.

Acute and chronic health hazards
May cause cancer. Prolonged or repeated exposure may cause severe irritation. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. May cause liver and/or renal damage. Respiratory system, lungs

SECTION 12: Ecological Information

Ecotoxicity
Avoid or minimise the creation of any environmental contamination.

12.1. Toxicity
Toxicity
Not considered toxic to fish.

12.2. Persistence and degradability
Persistence and degradability
Avoid subsoil penetration.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.

12.4. Mobility in soil
Mobility
Avoid the spillage or runoff entering drains, sewers or watercourses.

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.
PHILLYMastic TG-7B Paste Hardener

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

14.1. UN number

UN No. (ADR/RID) 1760
UN No. (IMDG) 1760
UN No. (ICAO) 1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE)
Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE)
Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE)

14.3. Transport hazard class(es)

ADR/RID class 8
ADR/RID label 8
IMDG class 8
ICAO class/division 8

Transport labels

14.4. Packing group

ADR/RID packing group II
IMDG packing group II
ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS F-A, S-B
PHILLYMASTIC TG-7B PASTE HARDENER

Emergency Action Code 2X

Hazard Identification Number (ADR/RID) 80

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


15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 06/04/2018
Revision 11
Supersedes date 13/02/2018

Hazard statements in full H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
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.