1.1. Product identifier

Product name: EXPANSION JOINT COMPOUND RED & GREY HARDENER
Product number: Y0024

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)

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards: Not Classified
Health hazards: Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H317
Environmental hazards: Aquatic Chronic 3 - H412

Human health: Corrosive. Prolonged contact causes serious eye and tissue damage.

2.2. Label elements

Pictogram: 

Signal word: Danger
EXPANSION JOINT COMPOUND RED & GREY HARDENER

Hazard statements
H302+H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P270 Do not eat, drink or smoke when using this product.
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.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

Contains 2-PIPERAZIN-1-YLETHYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

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.
P273 Avoid release to the environment.
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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
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

<table>
<thead>
<tr>
<th>2-PIPERAZIN-1-YLETHYLAMINE</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 140-31-8</td>
<td>EC number: 205-411-0</td>
</tr>
<tr>
<td>REACH registration number: 01-2119471486-30-0003</td>
<td></td>
</tr>
</tbody>
</table>

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412
EXPANSION JOINT COMPOUND RED & GREY HARDENER

<table>
<thead>
<tr>
<th>2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL</th>
<th>10-30%</th>
</tr>
</thead>
</table>

**Classification**
- Skin Corr. 1B - H314
- Eye Dam. 1 - H318
- Skin Sens. 1 - H317
- Aquatic Chronic 3 - H412

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 inhalation of vapours and 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**
Corrosive. Small amounts may cause serious damage. Do not induce vomiting. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.

**Skin contact**
Remove contaminated clothing immediately and wash skin 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. 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 foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

**Specific hazards**
Avoid breathing fire gases or vapours.

5.3. Advice for firefighters

**Protective actions during firefighting**
Keep up-wind to avoid fumes. Control run-off water by containing and keeping it out of sewers and watercourses. 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
EXPANSION JOINT COMPOUND RED & GREY HARDENER

Personal precautions

Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe vapour. Avoid contact with skin and eyes. No smoking, sparks, flames or other sources of ignition near spillage.

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

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

7.1. Precautions for safe handling

Usage precautions

Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid inhalation of vapours. Eliminate all sources of ignition. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

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

Ingredient comments

No exposure limits known for ingredient(s).

2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)

DNEL

Workers - Inhalation; Long term systemic effects: 3.6 mg/m³
Workers - Inhalation; Short term systemic effects: 21.4 mg/m³
Workers - Dermal; Long term systemic effects: 3.3 mg/kg/day
Workers - Dermal; Long term systemic effects: 20 mg/kg/day
Workers - Dermal; Long term local effects: 0.006 mg/cm²

8.2. Exposure controls

Protective equipment

Provide adequate general and local exhaust ventilation.

Appropriate engineering controls
EXPANSION JOINT COMPOUND RED & GREY HARDENER

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
Use protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. It is recommended that gloves are made of the following material: Butyl rubber. It is recommended that gloves are made of the following material: Neoprene. 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. 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
Amber.

Odour
Fishy.

pH
pH (diluted solution): 10.5-11.5 (5% Soln)

Melting point
N/D°C

Initial boiling point and range
>221°C @

Flash point
135°C PMCC (Pensky-Martens closed cup).

Evaporation rate
<1 ( BuAc= 1)

Vapour pressure
<3mmHg @ °C

Vapour density
>1

Relative density
0.99 @ 20 °C°C

Solubility(ies)
Soluble in water.

9.2. Other information
Other information
Not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity
Reactivity

10.2. Chemical stability
Stability
Stable at normal ambient temperatures and when used as recommended.
EXPANSION JOINT COMPOUND RED & GREY HARDENER

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Will not polymerise.

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

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 - oral
ATE oral (mg/kg) 588.24

Acute toxicity - dermal
ATE dermal (mg/kg) 1,294.12

Inhalation
Vapour may irritate respiratory system/lungs. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Ingestion
Corrosive. Small amounts may cause serious damage.

Skin contact
May be absorbed through the skin. Causes burns. Corrosive. Prolonged contact causes serious tissue damage. May cause sensitisation by skin contact.

Eye contact
Causes burns. Risk of serious damage to eyes. A single exposure may cause the following adverse effects: Corneal damage.

Acute and chronic health hazards
This product is corrosive. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns.

Route of entry
Inhalation Ingestion. Skin absorption

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 2,169.0
Species Rat

SECTION 12: Ecological Information

Ecotoxicity
Avoid release to the environment. The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity
EXPANSION JOINT COMPOUND RED & GREY HARDENER

Toxicity
Not considered toxic to fish.

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

14.1. UN number

UN No. (ADR/RID) 2735
UN No. (IMDG) 2735
UN No. (ICAO) 2735
UN No. (ADN) 2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AMINES, LIQUID, CORROSIVE, N.O.S. (AMINOETHYLPIPERAZINE & 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)
Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S. (AMINOETHYLPIPERAZINE & 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)
Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S. (AMINOETHYLPIPERAZINE & 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)
Proper shipping name (ADN) AMINES, LIQUID, CORROSIVE, N.O.S. (AMINOETHYLPIPERAZINE & 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)

14.3. Transport hazard class(es)

ADR/RID class 8
ADR/RID classification code C7
ADR/RID label 8
EXPANSION JOINT COMPOUND RED & GREY HARDENER

IMDG class 8
ICAO class/division 8
ADN class 8

Transport labels

14.4. Packing group
ADR/RID packing group III
IMDG packing group III
ADN packing group III
ICAO packing group III

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
EmS F-A, S-B
ADR transport category 3
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 31/05/2017
EXPANSION JOINT COMPOUND RED & GREY HARDENER

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.
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.