

SAFETY DATA SHEET CHOCKFAST RED HARDENER

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

1.1. Product identifier

Product name CHOCKFAST RED HARDENER

Product number Y0015

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 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Human health The liquid is strongly irritating to eyes and skin.

Environmental Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

2.2. Label elements

Pictogram







Signal word

Danger

CHOCKFAST RED HARDENER

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

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.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.

Contains FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE,

3,6,9-TRIAZUNDECAMETHYLENEDIAMINE, DIETHYLENETRIAMINE

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.

P310 Immediately call a POISON CENTER/ doctor.
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.

P391 Collect spillage. 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

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE

60-100%

Classification

Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

3,6,9-TRIAZUNDECAMETHYLENEDIAMINE

5-10%

CAS number: 112-57-2 EC number: 203-986-2

Classification

Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

CHOCKFAST RED HARDENER

DIETHYLENETRIAMINE 1-5%

CAS number: 111-40-0 EC number: 203-865-4 REACH registration number: 01-

2119473793-27-0000

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

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 Do not breathe vapour/spray. Avoid contact with 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. If vomiting occurs, the head should be kept low so that vomit does not

enter the lungs. 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. Protection against nuisance dust must be used when

the airborne concentration exceeds 10 mg/m3.

5.3. Advice for firefighters

Protective actions during

firefighting

Keep up-wind to avoid fumes.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

SECTION 6: Accidental release measures

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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

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 Provide adequate general and local exhaust ventilation. Observe any occupational exposure

limits for the product or ingredients. Do not breathe vapour. Avoid contact with skin and eyes. 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 the following materials: Acids. 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

DIETHYLENETRIAMINE

Long-term exposure limit (8-hour TWA): WEL 1 ppm(Sk) 4.3 mg/m3(Sk)

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment









Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

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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 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: Polyvinyl chloride (PVC). 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 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.

>200°C @

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Amber.

Odour Ammonia.

Flash point 111°C

Initial boiling point and range

Vapour pressure 3.60mmHg @ °C

Relative density 0.95 @ 20 °C °C

Solubility(ies) Miscible with water.

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Acids. Strong oxidising agents.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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Possibility of hazardous

reactions

Not available.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents. Nitrous acid and other nitrosating agents. Acids - organic.

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) 3,846.15

Acute toxicity - dermal

ATE dermal (mg/kg) 8,461.54

Skin contact

Irritating to skin. May cause sensitisation by skin contact.

Eye contact

Irritating to eyes.

Acute and chronic health

hazards

Irritating to skin. Irritating to eyes.

3,6,9-TRIAZUNDECAMETHYLENEDIAMINE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

SECTION 12: Ecological Information

Ecotoxicity Avoid releasing into 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

Toxicity Not considered toxic to fish.

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE

Acute toxicity - fish LC₅₀, : 1-10 mg/l, Algae

Acute toxicity - aquatic

Acute toxicity - aquation

invertebrates

EC₅₀, : 1-10 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, : 1-10 mg/l, Fish

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3,6,9-TRIAZUNDECAMETHYLENEDIAMINE

Acute toxicity - fish LC₅₀, 96 hours: 420 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 24.1 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 6.8 mg/l, Selenastrum capricornutum

12.2. Persistence and degradability

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

3,6,9-TRIAZUNDECAMETHYLENEDIAMINE

Persistence and degradability

The product is not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

3,6,9-TRIAZUNDECAMETHYLENEDIAMINE

Bioaccumulative potential log Kow: -3.16,

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 methodsDispose 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

CHOCKFAST RED HARDENER

Proper shipping name

CORROSIVE LIQUID, N.O.S. (TETRAETHYLENEPENTAMINE, DIETHYLENETRIAMINE)

(ADR/RID)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (TETRAETHYLENEPENTAMINE, DIETHYLENETRIAMINE)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (TETRAETHYLENEPENTAMINE, DIETHYLENETRIAMINE)

Proper shipping name (ADN) CORROSIVE LIQUID, N.O.S. (TETRAETHYLENEPENTAMINE, DIETHYLENETRIAMINE)

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 III

IMDG packing group

ICAO packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

Emergency Action Code 2X

Hazard Identification Number 80

(ADR/RID)

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.

SECTION 16: Other information

Revision date 06/04/2018

Revision 15

CHOCKFAST RED HARDENER

Supersedes date 03/05/2016

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.

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.