



**SAFETY DATA SHEET**  
**CHOCKFAST RED SG HARDENER**

## 1. Identification

### Product identifier

**Product name** CHOCKFAST RED SG HARDENER

**Product number** Y0008

### 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 239 670 (24h)

## 2. Hazard(s) identification

### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 3 - H412

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

### Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statements

H312 Harmful 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.

## CHOCKFAST RED SG HARDENER

<b>Precautionary statements</b>	<p>P260 Do not breathe vapor/ spray.</p> <p>P261 Avoid breathing vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a poison center/ doctor.</p> <p>P312 Call a poison center/ doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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**Contains** TRIETHYLENETETRAMINE

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

<b>TRIETHYLENETETRAMINE</b>	<b>60-100%</b>
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

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

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Do not breathe vapor/spray. Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Give plenty of water to drink. Get medical attention.
<b>Skin Contact</b>	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	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.

## CHOCKFAST RED SG HARDENER

### 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.

### Indication of immediate medical attention and special treatment needed

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

### 5. Fire-fighting measures

#### Extinguishing media

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

#### Special hazards arising from the substance or mixture

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

#### Advice for firefighters

**Protective actions during firefighting** Follow standard procedure for chemical fires Keep up-wind to avoid fumes. Control run-off water by containing and keeping it out of sewers and watercourses.

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

#### 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** Contain and absorb spillage with sand, earth or other non-combustible 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. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store at room temperature. Store in tightly-closed, original container. 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.

## CHOCKFAST RED SG HARDENER

### 8. Exposure Controls/personal protection

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

#### Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation.

##### 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 OSHA 1910.133.

##### Hand protection

Wear protective gloves made of the following material: Rubber or plastic. 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 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 OSHA 1910.134.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Colorless to pale yellow.
<b>Odor</b>	Ammonia.
<b>pH</b>	pH (diluted solution): 12 100g/l water @20oC
<b>Initial boiling point and range</b>	277°C @
<b>Flash point</b>	122°C PMCC (Pensky-Martens closed cup).
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: N/D Upper flammable/explosive limit: N/D
<b>Vapor pressure</b>	<0.001 kPa @ °C
<b>Vapor density</b>	5.0
<b>Relative density</b>	0.98 @ 20 °C°C

## CHOCKFAST RED SG HARDENER

<b>Solubility(ies)</b>	Miscible with water.
<b>Partition coefficient</b>	: LOG Pow:<0
<b>Auto-ignition temperature</b>	335°C
<b>Viscosity</b>	30 mPa s @ 20°C
<b>Other information</b>	Not available.

### 10. Stability and reactivity

<b>Reactivity</b>	Strong oxidizing agents.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	Not available.
<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.
<b>Materials to avoid</b>	Avoid contact with oxidizing agents. Nitrous acid and other nitrosating agents.
<b>Hazardous decomposition products</b>	Fire or high temperatures create: Nitrous gases (NO <sub>x</sub> ). Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Vapours/gases/fumes of: Ammonia or amines.

### 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 1,100.0

<b>Inhalation</b>	Vapors may irritate throat/respiratory system. Symptoms following overexposure may include the following: Coughing.
<b>Skin Contact</b>	Corrosive. Prolonged contact causes serious tissue damage.
<b>Eye contact</b>	This product is strongly corrosive. Immediate first aid is imperative.
<b>Acute and chronic health hazards</b>	This product is corrosive. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns.
<b>Route of entry</b>	Inhalation Ingestion. Skin absorption
<b>Target Organs</b>	Prolonged or repeated exposure may cause the following adverse effects: May cause damage to the liver and kidneys. Respiratory system, lungs Central nervous system

### 12. Ecological Information

<b>Ecotoxicity</b>	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.
<b>Toxicity</b>	Not considered toxic to fish.
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 570 mg/l, Fish

## CHOCKFAST RED SG HARDENER

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 31 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: 20 mg/l, Algae

### Persistence and degradability

**Persistence and degradability** The product is not readily biodegradable.

### Bioaccumulative potential

**Partition coefficient** : LOG Pow:<0

### Mobility in soil

**Mobility** Not considered mobile.

### Other adverse effects

**Other adverse effects** Not available.

## 13. Disposal considerations

### 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

**General** No other information known.

### UN Number

**UN No. (TDG)** 2259

**UN No. (IMDG)** 2259

**UN No. (ICAO)** 2259

**UN No. (DOT)** 2259

### UN proper shipping name

**Proper shipping name (TDG)** TRIETHYLENETETRAMINE

**Proper shipping name (IMDG)** TRIETHYLENETETRAMINE

**Proper shipping name (ICAO)** TRIETHYLENETETRAMINE

**Proper shipping name (DOT)** TRIETHYLENETETRAMINE

### Transport hazard class(es)

**TDG class** 8

**TDG label(s)** 8

**IMDG Class** 8

**ICAO class/division** 8

**CHOCKFAST RED SG HARDENER****Transport labels****Packing group**

<b>TDG Packing Group</b>	II
<b>IMDG packing group</b>	II
<b>ICAO packing group</b>	II
<b>DOT packing group</b>	II

**Environmental hazards****Environmentally Hazardous Substance**

No.

**Special precautions for user****EmS** F-A, S-B

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information required.

**15. Regulatory information****16. Other information****Revision date** 4/6/2018**Revision** 9**Supersedes date** 5/4/2016

**Hazard statements in full**

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.