



**SAFETY DATA SHEET**  
SAFE STEP 200 - HARDENER

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Compilation date: 22/12/2011

Revision No: 5

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** SAFE STEP 200 - HARDENER

**Product code:** 43320B

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

**1.3. Details of the supplier of the safety data sheet**

**Company name:** ROCOL

ROCOL House

Swillington

Leeds

West Yorkshire

LS26 8BS

ENGLAND

**Tel:** +44 (0) 113 232 2700

**Fax:** +44 (0) 113 232 2740

**Email:** [customer-service@rocol.com](mailto:customer-service@rocol.com)

**1.4. Emergency telephone number**

**Emergency tel:** +44 (0) 113 232 2600

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CHIP:** C: R34; Xn: R20/21/22; Sens.: R43; -: R52/53

**Most important adverse effects:** Causes burns. Harmful by inhalation, in contact with skin and if swallowed. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2. Label elements**

**Label elements under CHIP:**

**Hazard symbols:** Corrosive.



**Risk phrases:** R34: Causes burns.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R43: May cause sensitisation by skin contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

[cont...]

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**Safety phrases:** S23: Do not breathe spray.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S51: Use only in well-ventilated areas.  
S60: This material and its container must be disposed of as hazardous waste.

**2.3. Other hazards**

**PBT:** This substance is not identified as a PBT substance.

**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients:**

BENZYL ALCOHOL

EINECS	CAS	CHIP Classification	CLP Classification	Percent
202-859-9	100-51-6	Xn: R20/22	-	30-50%

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

220-666-8	2855-13-2	Xn: R21/22; C: R34; Sens.: R43; -: R52/53	-	10-30%
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4,4'-ISOPROPYLIDENEDIPHENOL

201-245-8	80-05-7	Xn: R62; Xi: R37; Xi: R41; Sens.: R43; -: R52	-	1-10%
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M-XYLYLENEDIAMINE

-	1477-55-0	Xn: R20/22; C: R34; Sens.: R43; -: R52/53	-	1-10%
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**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.  
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Obtain medical attention if soreness or redness persists.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary.  
If unconscious and breathing is OK, place in the recovery position. Seek medical attention if you feel unwell.

[cont...]

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**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** Corrosive. In combustion emits toxic fumes.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**6.4. Reference to other sections**

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space.

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

**7.3. Specific end use(s)**

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Hazardous ingredients:**

**4,4'-ISOPROPYLIDENEDIPHENOL**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	-	-

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Gas/vapour filter, type A: organic vapours (EN141).

**Hand protection:** Gloves (solvent-resistant).

**Eye protection:** Tightly fitting safety goggles. Face-shield. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Paste

**Colour:** Off-white

**Odour:** Characteristic odour

**Solubility in water:** Insoluble

**Viscosity:** Viscous

**Flash point°C:** 105

**VOC g/l:** 180 (mixed)

**9.2. Other information**

**Other information:** Not applicable.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

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**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

**10.4. Conditions to avoid**

**Conditions to avoid:** Heat.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Relevant effects for mixture:**

Effect	Route	Basis
Acute toxicity (harmful)	INH DRM ING	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** Not applicable.

**12.2. Persistence and degradability**

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This substance is not identified as a PBT substance.

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**12.6. Other adverse effects**

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN2735

**14.2. UN proper shipping name**

**Shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S.  
(Isophorone Diamine)

**14.3. Transport hazard class(es)**

**Transport class:** 8

**14.4. Packing group**

**Packing group:** III

**14.5. Environmental hazards**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6. Special precautions for user**

**Section 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** Product label needs to specify: Contains Modified Polyamine Resin.

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

**Phrases used in s.2 and 3:** R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R20/22: Harmful by inhalation and if swallowed.

R21/22: Harmful in contact with skin and if swallowed.

R34: Causes burns.

R37: Irritating to respiratory system.

[cont...]

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R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52: Harmful to aquatic organisms.

R62: Possible risk of impaired fertility.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.