



**SAFETY DATA SHEET
SAFE STEP Metal primer –
Base component**

CP0451A v3.1 RS 340-9494, 340-9501

42087A 2.00 GB EN 22.07.2002 MSDS.EN

SAFETY DATA SHEET Ref. No. 42087A

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	SAFE STEP Metal primer - Base component
Manufacturer/Supplier	ROCOL Site Safety Systems
Address	ROCOL House, Swillington, Leeds, West Yorkshire, LS26 8BS, England.
Phone Number	+44 (0) 113 2322800
Fax Number	+44 (0) 113 2322850
Emergency Phone Number	+44 (0) 113 232 2600

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Hazardous Components in Product for EC

Component Name	Codes	Concentration	R Phrases	Classification
BUTANOL (EXCEPT T-BUTANOL)	000071-36-3	7.00 - 11.00	R10, R22, R37/38, Xn, f R41, R67	
SOLVENT NAPHTHA (<0.1% w/w BENZENE)	64742-95-6	2.00 - 5.00	R10, R65, R51/53	f, Xn, N
XYLENE, MIXTURE OF ISOMERS	001330-20-7	8.00 - 12.00	R10, R20/21, R38	Xn, Xi, f
DIACETONE ALCOHOL, TECHNICAL	000123-42-2	1.00 - 5.00	R11, R36	Xi, F
1,2,4-TRIMETHYLBENZENE	000095-63-6	3.00 - 5.00	R10, R20, R36/37/38, R51/53	f, Xn, Xi, N
ISOPROPYLBENZENE	000103-65-1	0.20 - 1.00	R10, R37, R51, R53, R65	Xn, Xi, f
R10	R10	Flammable.		
R11	R11	Highly flammable.		
R20	R20	Harmful by inhalation.		
R20/21	R20/21	Harmful by inhalation and in contact with skin.		
R22	R22	Harmful if swallowed.		
R36	R36	Irritating to eyes.		
R36/37/38	R36/37/38	Irritating to eyes, respiratory system and skin.		
R37	R37	Irritating to respiratory system.		
R37/38	R37/38	Irritating to respiratory system and skin.		
R38	R38	Irritating to skin.		
R41	R41	Risk of serious damage to eyes.		
R51	R51	Toxic to aquatic organisms.		
R51/53	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
R53	R53	May cause long-term adverse effects in the aquatic environment.		
R65	R65	Harmful: may cause lung damage if swallowed.		
R67	R67	Vapours may cause drowsiness and dizziness.		
F	F	Highly flammable		
N	N	Dangerous to the Environment		
Xi	Xi	Irritant		
Xn	Xn	Harmful		
f	f	Flammable		

3. HAZARD IDENTIFICATION

Main Hazards	Flammable. Irritating to eyes and skin. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Health Effects - Eyes	Liquid may cause slight transient irritation.
Health Effects - Skin	Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
Health Effects - Ingestion	Swallowing may have the following effects:- dizziness. light headedness. drowsiness. nausea.
Health Effects - Inhalation	Exposure to vapour at high concentrations may have the following effects:- dizziness. light headedness. drowsiness. headache. Exposures during normal handling and use are likely to be well below those that would be expected to produce the above effects.

4. FIRST AID MEASURES

First Aid - Eyes	Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention if soreness or redness
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4. FIRST AID MEASURES

First Aid - Skin

persists.

Wash skin with soap and water. If material proves difficult to remove, use suitable skin cleanser (not solvent). Apply a reconditioning skin cream.

First Aid - Ingestion

Do not induce vomiting. Obtain medical attention.

First Aid - Inhalation

Remove from exposure. Keep warm and at rest. Seek medical attention if you feel unwell.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Use foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.

Unsuitable Extinguishing Media

Do not use water jet.

Special Hazards of Product

This product may give rise to hazardous fumes in a fire.

Protective Equipment for Fire-Fighting

Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ventilate the area. Wear appropriate protective clothing.

Environmental Precautions

Try to prevent the material from entering drains or water courses.

Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Spillages

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling

Use in well ventilated area. Keep container tightly closed when not in use.

Storage

Storage temperature should be controlled to between 5 and 40 °C.
Store away from sources of heat or ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

n-Butanol

UK EH40: OES 50ppm 15min TWA.

SOLVENT NAPHTHA (<0.1% w/w BENZENE)

UK EH40: OES 150mg/m³ 8h TWA.

XYLENE, MIXTURE OF ISOMERS

UK EH40: OES 100ppm 8h TWA. UK EH40: OES 150ppm 15min TWA.

DIACETONE ALCOHOL, TECHNICAL

UK EH40: OES 50ppm 8h TWA. UK EH40: OES 75ppm 15min TWA.

1,2,4-TRIMETHYLBENZENE

ACGIH: TLV 25ppm (123mg/m³) 8h TWA. UK EH40: OES 25ppm (125mg/m³) 8h TWA.

Engineering Control Measures

Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

Respiratory Protection

Respiratory protection if there is a risk of exposure to high vapour concentrations. Air supplied breathing apparatus if exposures above the hygiene standard are likely.

Rubber gloves.

Chemical goggles.

Normal work wear.

Protection During Application

During application, adequate ventilation must be provided. For spray applications, extraction equipment and respiratory protection are required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid.

Colour

Grey.

Odour

Aromatic.

Boiling Range/Point (°C)

>120

Flash Point (PMCC) (°C)

30



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9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water (kg/m³)	Insoluble.
Density (kg/m³)	1.45.
Auto-flammability (°C)	Above 370.
Viscosity (cSt)	Mobile liquid at ambient temperatures.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	High temperatures.
Materials to Avoid	Strong oxidising agents.
Hazardous Decomposition Products	Combustion will generate: smoke, possibly thick and choking, resulting in zero visibility.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	The product contains components that are harmful by the following route of exposure: inhalation. skin contact.
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12. ECOLOGICAL INFORMATION

Mobility	The product is volatile/gaseous and will partition to the air phase. If released to water the product will sink. The product is insoluble in water.
Bio-accumulation	No data.

13. DISPOSAL

Product Disposal	Incineration is the recommended method of disposal. Dispose of in accordance with all applicable local and national regulations.
Container Disposal	Do not incinerate closed containers. Dispose of containers with care.

14. TRANSPORT INFORMATION

UN Number	1263
UN Proper Shipping Name	Paint
UN Class	3
UN Packaging Group	III
UK Proper Shipping Name	Paint
UK Classification	3
UK Packing Group	III
UK Transport Category	3
ADR/RID - Description	Paint
ADR/RID - Class	3
IMDG - Proper Shipping Name	Paint.
IMDG - Packaging Group	III
IMDG - Class	3
IMDG - Marine Pollutant	No
IMDG - Ems Number	3-05
IATA - Proper Shipping Name	Paint.
IATA - Packaging Group	III
IATA - Class	3
Tremcard No. TEC(R)	595

15. REGULATORY INFORMATION

**Labelling
Information**



Irritant

R phrases

R10 Flammable.
R36/38 Irritating to eyes and skin.
R52 Harmful to aquatic organisms.



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15. REGULATORY INFORMATION

S phrases

R53 May cause long-term adverse effects in the aquatic environment.
S16 Keep away from sources of ignition - No Smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.
S51 Use only in well ventilated areas.
S57 Use appropriate container to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.

16. OTHER INFORMATION

Product Use	For industrial use only. Paints and coatings
MSDS first issued	5 November 2001
MSDS data revised	22 July 2002

17. NATIONAL LEGISLATION

EC Legislation	EC Directive 91/155/EEC defining the laying down and detailed arrangements for the system of specific information relating to dangerous preparations. EC Directive 99/45/EC relating to the classification, packaging and labelling of dangerous preparations.
UK Guidance Publications	EH40, Occupational Exposure Limits, HSE. Revised Annually. CHIP 97 Guidance on Regulations (ISBN 0-7176-1366-6) page 12 - reference application of the aspiration hazard (R65) to preparations having a kinetic viscosity greater than or equal to 7mm ² /s at 40°C.

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This Safety Data Sheet, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.



**SAFETY DATA SHEET
SAFE STEP - Metal primer -
Hardener component**

CP0451B v3.1 RS 340-9494, 340-9501

42087B 2.00 GB EN 23.07.2002 MSDS.EN

SAFETY DATA SHEET Ref. No. 42087B

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	SAFE STEP - Metal primer - Hardener component
Manufacturer/Supplier	ROCOL Site Safety Systems
Address	ROCOL House, Swillington, Leeds, West Yorkshire, LS26 8BS, England.
Phone Number	+44 (0) 113 2322800
Fax Number	+44 (0) 113 2322850
Emergency Phone Number	+44 (0) 113 232 2600

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Hazardous Components in Product for EC

Component Name	Codes	Concentration	R Phrases	Classification
BUTANOL (EXCEPT T-BUTANOL)	000071-36-3	20.00 - 30.00	R10, R22, R37/38, Xn, f R41, R67	
SOLVENT NAPHTHA (<0.1% w/w BENZENE)	64742-95-6	8.00 - 12.00	R10, R65, R51/53	f, Xn, N
XYLENE, MIXTURE OF ISOMERS	001330-20-7	20.00 - 28.00	R10, R20/21, R38	Xn, Xi, f
DIETHYLENETRIAMINE		1.00 - 5.00	R21/22, R34, R43	C
DIACETONE ALCOHOL, TECHNICAL	000123-42-2	5.00 - 11.00	R11, R36	Xi, F
ISOPROPYLBENZENE	000103-65-1	2.00 - 5.00	R10, R37, R51, R53, R65	Xn, Xi, f
1,2,4-TRIMETHYLBENZENE	000095-63-6	10.00 - 14.00	R10, R20, R36/37/38, R51/53	f, Xn, Xi, N
R10		R10 Flammable.		
R11		R11 Highly flammable.		
R20		R20 Harmful by inhalation.		
R20/21		R20/21 Harmful by inhalation and in contact with skin.		
R21/22		R21/22 Harmful in contact with skin and if swallowed.		
R22		R22 Harmful if swallowed.		
R34		R34 Causes burns.		
R36		R36 Irritating to eyes.		
R36/37/38		R36/37/38 Irritating to eyes, respiratory system and skin.		
R37		R37 Irritating to respiratory system.		
R37/38		R37/38 Irritating to respiratory system and skin.		
R38		R38 Irritating to skin.		
R41		R41 Risk of serious damage to eyes.		
R43		R43 May cause sensitisation by skin contact.		
R51		R51 Toxic to aquatic organisms.		
R51/53		R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
R53		R53 May cause long-term adverse effects in the aquatic environment.		
R65		R65 Harmful: may cause lung damage if swallowed.		
R67		R67 Vapours may cause drowsiness and dizziness.		
C		C - Corrosive		
F		F - Highly flammable		
N		N - Dangerous to the Environment		
Xi		Xi - Irritant		
Xn		Xn - Harmful		
f		Flammable		

3. HAZARD IDENTIFICATION

Main Hazards	Flammable. Harmful by inhalation and in contact with skin. Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Health Effects - Eyes	Liquid may cause slight transient irritation.
Health Effects - Skin	Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
Health Effects - Ingestion	Swallowing may have the following effects:- dizziness, light headedness, drowsiness, nausea, irritation of mouth, throat and digestive tract.



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3. HAZARD IDENTIFICATION

Health Effects - Inhalation

Exposure to vapour at high concentrations may have the following effects:- dizziness. light headedness. drowsiness. headache. irritation of nose, throat and respiratory tract.
Exposures during normal handling and use are likely to be well below those that would be expected to produce the above effects.

4. FIRST AID MEASURES

First Aid - Eyes

Wash out eye with plenty of water. Obtain medical attention if soreness or redness persists.

First Aid - Skin

Wash skin with soap and water. If material proves difficult to remove, use suitable skin cleanser (not solvent). Apply a reconditioning skin cream.

First Aid - Ingestion

Do not induce vomiting. Obtain medical attention.

First Aid - Inhalation

Remove from exposure. Keep warm and at rest. Seek medical attention if you feel unwell.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Use foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.

Unsuitable Extinguishing Media

Do not use water jet.

Special Hazards of Product

This product may give rise to hazardous fumes in a fire.

Protective Equipment for Fire-Fighting

Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ventilate the area. Wear appropriate protective clothing.

Environmental Precautions

Try to prevent the material from entering drains or water courses.

Spillages

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling

Use in well ventilated area. Keep container tightly closed when not in use.

Storage

Storage temperature should be controlled to between 5 and 40 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

n-Butanol

UK EH40: OES 50ppm 15min TWA.

SOLVENT NAPHTHA (<0.1% w/w BENZENE)

UK EH40: OES 150mg/m³ 8h TWA.

XYLENE, MIXTURE OF ISOMERS

UK EH40: OES 100ppm 8h TWA. UK EH40: OES 150ppm 15min TWA.

DIACETONE ALCOHOL, TECHNICAL

UK EH40: OES 50ppm 8h TWA. UK EH40: OES 75ppm 15min TWA.

1,2,4-TRIMETHYLBENZENE

ACGIH: TLV 25ppm (123mg/m³) 8h TWA. UK EH40: OES 25ppm (125mg/m³) 8h TWA.

Engineering Control Measures

Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

Respiratory Protection

Respiratory protection if there is a risk of exposure to high vapour concentrations. Air supplied breathing apparatus if exposures above the hygiene standard are likely.

Rubber gloves.

Hand Protection

Chemical goggles if there is a risk of eye contact.

Eye Protection

Normal work wear.

Body Protection

During application, adequate ventilation must be provided.

Protection During Application

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	Amber. Clear.
Odour	Aromatic.
Boiling Range/Point (°C)	>120
Flash Point (PMCC) (°C)	>30
Solubility in Water (kg/m ³)	Insoluble.
Density (kg/m ³)	0.89.
Viscosity (cSt)	Mobile liquid at ambient temperatures.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	High temperatures.
Materials to Avoid	Strong oxidising agents.
Hazardous Decomposition Products	Combustion will generate: smoke, possibly thick and choking, resulting in zero visibility. Combustion may also generate: toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	The product contains components that are harmful by the following route of exposure: inhalation, skin contact.
Skin Sensitisation	The possibility of allergic sensitisation should be considered.

12. ECOLOGICAL INFORMATION

Mobility	The product is volatile/gaseous and will partition to the air phase. The product is insoluble in water.
Persistence/Degradability	The product is expected to be resistant to biodegradation.

13. DISPOSAL

Product Disposal	Incineration is the recommended method of disposal. Dispose of in accordance with all applicable local and national regulations.
Container Disposal	Do not incinerate closed containers. Dispose of containers with care.

14. TRANSPORT INFORMATION

UN Number	1263
UN Proper Shipping Name	Paint related material
UN Class	3
UN Packaging Group	III
UK Proper Shipping Name	Paint
UK Classification	3
UK Packing Group	III
UK Transport Category	3
ADR/RID - Description	Paint
ADR/RID - Class	3
IMDG - Proper Shipping Name	Paint related material.
IMDG - Packaging Group	III
IMDG - Class	3
IMDG - Marine Pollutant	No
IMDG - Ems Number	3-05
IATA - Proper Shipping Name	Paint related material.
IATA - Packaging Group	III
IATA - Class	3
Tremcard No. TEC(R)	595



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15. REGULATORY INFORMATION

**Labelling
Information**



Harmful

R phrases

R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R36/37/38 Irritating to eyes, respiratory system and skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R52 Harmful to aquatic organisms.

S phrases

R53 May cause long-term adverse effects in the aquatic environment.
S23 Do not breathe vapour.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S51 Use only in well ventilated areas.
S57 Use appropriate container to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.

Contains

Xylene (mixture of isomers). Diethylenetriamine

16. OTHER INFORMATION

Product Use

For industrial use only. Paints and coatings

MSDS first issued

5 November 2001

MSDS data revised

23 July 2002

17. NATIONAL LEGISLATION

EC Legislation

EC Directive 91/155/EEC defining the laying down and detailed arrangements for the system of specific information relating to dangerous preparations.

EC Directive 99/45/EC relating to the classification, packaging and labelling of dangerous preparations.

UK Guidance Publications

EH40, Occupational Exposure Limits, HSE. Revised Annually.
CHIP 97 Guidance on Regulations (ISBN 0-7176-1366-6) page 12 - reference application of the aspiration hazard (R65) to preparations having a kinetic viscosity greater than or equal to 7mm²/s at 40°C.

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This Safety Data Sheet, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.
