

## Penetrating Spray

**Extreme performance, molybdenum disulphide reinforced, release spray**

### Product Overview

ROCOL® Penetrating Spray is a powerful release agent for corroded threaded fasteners and other seized components.

ROCOL Penetrating Spray contains molybdenum disulphide to aid disassembly of components.

ROCOL Penetrating Spray incorporates corrosion inhibitors to provide a protective film against further attack after use.

### Features and Benefits

- ROCOL Penetrating Spray provides excellent penetration in seized or corroded fasteners even after prolonged periods of seizure.
- ROCOL Penetrating Spray provides efficient loosening of fasteners when seized due to rust, scale, dirt, grime etc.
- ROCOL Penetrating Spray is dispensed via a powerful jet spray which mechanically penetrates rust and debris.
- The fast acting formulation of ROCOL Penetrating Spray minimizes time and effort when dealing with seized fasteners.
- Fasteners generally seize again once they start moving. ROCOL Penetrating Spray contains molybdenum disulphide to aid dismantling of components.
- ROCOL Penetrating Spray leaves a protective film which provides short term corrosion protection.

### Directions for Storage and Use

- Shake the aerosol well before use.
- Test compatibility with plastics and rubbers and painted or coated surfaces prior to application.
- Hold the can upright and apply from a distance of 15 – 30cm, coating the components thoroughly and paying particular attention to the seized contact areas.
- In severe cases, apply ROCOL Penetrating Spray for a second time after several minutes may be beneficial.
- Use only in well ventilated areas and do not apply to very hot surfaces.
- Store below +50°C, out of direct sunlight.
- Shelf life is 5 years from date of manufacture.
- Consult safety data sheet before use.

### Typical Applications

- Corroded threaded fasteners.
- Seized components.
- Outdoor and Marine environments.
- General industrial applications.

### Pack Sizes

Pack Size	Part Code
300ml	14021

## Penetrating Spray

**Extreme performance, molybdenum disulphide reinforced, release spray**

Property	Test Method	Result
Appearance	Visual	Grey / black liquid
Base Type	N/A	Mineral oil
Solids	N/A	Molybdenum disulphide (MoS <sub>2</sub> )
Solvent	N/A	Hydrocarbon
Propellant	N/A	CO <sub>2</sub> (carbon dioxide)
Odour	N/A	Characteristic
Density (kg/m <sup>3</sup> )	N/A	0.85
Flash Point (°C)	ASTM D93	>75°C
Water Solubility	N/A	Insoluble

Values quoted above are typical and do not constitute a specification.

### Safety Data Sheets

Safety data sheets are available for download from our website [www.rocol.com](http://www.rocol.com) or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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T +44 (0) 113 232 2600

F +44 (0) 113 232 2740

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

[www.rocol.com](http://www.rocol.com)

ROCOL House, Swillington, Leeds LS26 8BS

Registered Company No. 559693 VAT No. 742 0531 67

Registered Office: Admiral House, St Leonard's Road, Windsor, Berkshire SL4 3BL

**ROCOL** A division of **ITW** Ltd



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Certificate No. FM 12448



BS EN ISO 14001  
Certificate No. EMS 67596



OHSAS 18001  
Certificate No. OHS 78173



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## SAFETY DATA SHEET

### PENETRATING SPRAY

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Compilation date: 19/11/2012

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

##### 1.1. Product identifier

**Product name:** PENETRATING SPRAY

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

**Use of substance / mixture:** Penetrating lubricant

##### 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:** F+: R12

**Most important adverse effects:** Extremely flammable.

##### 2.2. Label elements

**Label elements under CHIP:**

**Hazard symbols:** Extremely flammable.



**Risk phrases:** R12: Extremely flammable.

**Safety phrases:** S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe spray.

S51: Use only in well-ventilated areas.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

**Precautionary phrases:** Pressurized container: protect from sunlight and do not expose to temperatures

[cont...]

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exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

### 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:

##### HYDROTREATED NAPHTHENIC DISTILLATE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
265-097-6	64741-96-4	-	-	30-50%

##### ODOURLESS KEROSENE

265-149-8	64742-47-8	Xn: R65; -: R66	-	30-50%
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##### CARBON DIOXIDE AEROSOL PROPELLANT

204-696-9	124-38-9	-:	-	1-10%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. May cause dizziness.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

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

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Do not use water. Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

[cont...]

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

**Exposure hazards:** Flammable. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

### 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:** Refer to section 8 of SDS for personal protection details.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

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

**Clean-up procedures:** Absorb into dry earth or sand. 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:** Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Smoking is forbidden.

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

**Storage conditions:** Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight.

**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:**

**HYDROTREATED NAPHTHENIC DISTILLATE**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	5mg/m <sup>3</sup>	10mg/m <sup>3</sup>	-	-

[cont...]

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### ODOURLESS KEROSENE

UK	1000mg/m <sup>3</sup>	-	-	-
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### CARBON DIOXIDE AEROSOL PROPELLANT

UK	5000ppm 9150mg/m <sup>3</sup>	15000ppm 27400mg/m <sup>3</sup>	-	-
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## 8.2. Exposure controls

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

**Respiratory protection:** Respiratory protection not normally required for normal use in well ventilated areas.  
Respiratory protection should be used in enclosed spaces, with poor ventilation, for extended repeated use, or where exposure limits may be exceeded. Recommended filter types are A1P2 or A2P2.

**Hand protection:** Nitrile gloves.

**Eye protection:** Safety glasses with side-shields.

**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

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

**State:** Aerosol

**Colour:** Dark grey

**Odour:** Aromatic

**Evaporation rate:** Slow

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Insoluble

**Viscosity:** Non-viscous

**Boiling point/range°C:** 195

**Melting point/range°C:** <0

**Flammability limits %: lower:** 0.9

**upper:** 8

**Flash point°C:** 70

**Autoflammability°C:** >200

**Vapour pressure:** <1

**Relative density:** 0.8

### 9.2. Other information

**Other information:** Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

[cont...]

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### 10.4. Conditions to avoid

**Conditions to avoid:** Direct sunlight. Heat. Sources of ignition.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:** Not applicable.

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. May cause dizziness.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** Not applicable.

### 12.2. Persistence and degradability

**Persistence and degradability:** Only slightly biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Highly volatile. Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

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

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### Section 14: Transport information

#### 14.1. UN number

UN number: UN1950

#### 14.2. UN proper shipping name

Shipping name: AEROSOLS, Flammable

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

Transport class: 2

#### 14.4. Packing group

#### 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:** EC Directive 94/1/EC adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of Member States relating to aerosol dispensers.

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

Compiled in accordance with REACH.

**Phrases used in s.2 and 3:** None

R12: Extremely flammable.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

**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.