

Performance you can trust

COLD GALVANISING Spray

Optimum Galvanic Protection

Product Overview

ROCOL® COLD GALVANISING Spray offers ultra long term corrosion protection for metal components requiring a permanent zinc-rich mid-grey coating.

Ideal for components that cannot be galvanised using a hot dip process.

Also used to repair the surface of galvanised components that have been damaged or repaired prior to welding or other mechanical operations.

Typical Applications

Ports and docks, marine and offshore, farm and other industrial equipment:

Steel door and window frames, fences, gates, garage doors, trailer and caravan chassis, couplings, internal car body panels, structural steel and guard rails, welded seams, drains and boilers, storage tanks, piping and fittings etc.

Features and Benefits

- Ultra long term protection for ferrous metals – 3500 hours salt spray test.
- 95% zinc-rich coating – provides sacrificial cathodic protection to ferrous metals.
- Self-healing mechanism – scratches are re-sealed by the formation of zinc oxide and carbonates.
- Unique combination of flexibility and hardness – highly resistant to peeling, flaking and abrasion.
- Exceptional water resistance – tough polymeric zinc-rich film.
- Outstanding temperature resistance: -30°C to +450°C.
- High performance coating or primer – contains pure zinc, synthetic resin and additives.
- Non-toxic formulation – lead and chromate free.
- Excellent repair for galvanised surfaces – adheres well to metal surfaces.

Directions for Storage and Use

- Apply to a clean, degreased, dry surface for best results.
- Remove any residual rust and scale with a wire brush or other abrasive method.
- Rust removers based on phosphoric acid which leave an electrically insulating film should not be used as this will interfere with the galvanic protection action.
- Clean the area to be treated with a non-residue solvent cleaner such as ROCOL INDUSTRIAL CLEANER Rapid Dry Spray, p/c 34131, and ensure the solvent has evaporated completely before continuing.
- Invert can and shake vigorously for 2 minutes after the agitator ball starts to rattle. Shake frequently during use.
- Hold upright and spray from a distance of approximately 15-30 cm.
- Apply in light, even layers:
 - For best results apply 2 light films at 15-20 minute intervals rather than 1 heavy film.
 - Additional layers can be applied at 15-20 minute intervals.
- Clear nozzle after use - invert can and spray for 3-5 seconds until only propellant is expelled.
- Touch dry in 15 minutes at 20°C – Fully cured in approximately 24 hours at 20°C.
- If contact is unavoidable, test compatibility with painted or coated surfaces, plastics and rubbers prior to application.
- Storage temperature should be kept below 50°C. Storage area should be out of direct sunlight.
- Shelf life 4 years from date of manufacture.

Pack Sizes

Pack Size	Part Code
400ml	69515

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BS EN ISO 9001
Certificate No. FM 12448



BS EN ISO 14001
Certificate No. EMS 67596



OHSAS 18001
Certificate No. OHS 78173



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COLD GALVANISING Spray

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Typical Properties

Property	Result
Appearance	Medium grey dry film coating
Curing Time (20°C):	
Touch Dry	15 mins
Full Cure	Approximately 24 hrs
Applied Film	Resin bonded micronised zinc
Resin Type	Epoxy ester
Solids (applied film)	95% w/w zinc
Solvent	Hydrocarbon
Propellant	DME (Dimethyl ether)
Applied Film Thickness (1 coat)	0.1mm typical
Salt Spray Test (ASTM B-117):	
3,500 hours at 35°C	0% corrosion
Temperature Range	-30°C to +450°C
Coverage per Aerosol (0.1mm, dry)	2.0m²

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 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.

Issue: 1 Date: 03-11

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SAFETY DATA SHEET
COLD GALVANISING SPRAY

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Compilation date: 22/12/2011

Revision No: 4

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

1.1. Product identifier

Product name: COLD GALVANISING SPRAY

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

Use of substance / mixture: Metal galvanising spray

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

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; N: R50/53

Most important adverse effects: Extremely flammable. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements under CHIP:

Hazard symbols: Extremely flammable.

Dangerous for the environment.



Risk phrases: R12: Extremely flammable.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

[cont...]

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S23: Do not breathe spray.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

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

ZINC

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-175-3	7440-66-6	N: R50/53	-	50-70%

DIMETHYL ETHER AEROSOL PROPELLANT

204-065-8	115-10-6	F+: R12	-	10-30%
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HYDROGENATED HYDROCARBON (<0.1% BENZENE)

265-150-3	64742-48-9	-: R10; Xn: R65; -: R66	-	1-10%
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1-METHOXY-2-PROPANOL

203-539-1	107-98-2	-: R10; -: R67	-	1-10%
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HYDROTREATED NAPHTHENIC DISTILLATE

265-097-6	64741-96-4	-	-	1-10%
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XYLENE

215-535-7	1330-20-7	-: R10; Xn: R20/21; Xi: R38	-	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.

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.

[cont...]

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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.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Extremely flammable. Forms explosive air-vapour mixture. 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. Eliminate all sources of ignition.

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: Do not use equipment in clean-up procedure which may produce sparks. 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.

[cont...]

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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. Ensure lighting and electrical equipment are not a source of ignition.

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:

ZINC

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	3mg/m ³	-

DIMETHYL ETHER AEROSOL PROPELLANT

UK	400ppm 766mg/m ³	500ppm 958mg/m ³	-	-
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HYDROGENATED HYDROCARBON (<0.1% BENZENE)

UK	1000mg/m ³	-	-	-
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1-METHOXY-2-PROPANOL

UK	375 mg/m ³	560 mg/m ³	-	-
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HYDROTREATED NAPHTHENIC DISTILLATE

UK	5mg/m ³	10mg/m ³	-	-
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XYLENE

UK	220 mg/m ³	441 mg/m ³	-	-
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8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

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 if workplace exposure limits may be exceeded. A dust mask with P2 particle filter is recommended

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

State: Aerosol
Colour: Dark grey
Odour: Characteristic odour
Evaporation rate: Fast
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Not miscible
Viscosity: Non-viscous
Boiling point/range°C: -25
Melting point/range°C: < 0
Flammability limits %: lower: 3.4
upper: 18
Flash point°C: < -40
Autoflammability°C: > 300
Vapour pressure: 490
Relative density: 1.4

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.

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: 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.

[cont...]

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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. Heavier than air.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

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.

Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: AEROSOLS

14.3. Transport hazard class(es)

Transport class: 2

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

[cont...]

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

Safety data sheet prepared in accordance with Commission Directive 2008/47/EC of 8 April 2008 amending, for the purposes of adapting to technical progress, Council Directive 75/324/EEC relating to aerosol dispensers

Phrases used in s.2 and 3: R10: Flammable.

R12: Extremely flammable.

R20/21: Harmful by inhalation and in contact with skin.

R38: Irritating to skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

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.