

## Chainguard 550

### High temperature graphited chain and conveyor lubricant

#### Product Overview

ROCOL® CHAINGUARD 550 is a graphite based high temperature, dry film chain lubricant specifically formulated for the lubrication of oven chains subjected to extremes of temperature up to 550°C.

ROCOL CHAINGUARD 550 is ideal for the lubrication of conveyor chains in high temperature environments where the risk of product contamination by a wet lubricant cannot be tolerated. For example, bakery oven chains, or where temperatures are too high for wet lubricants to be used.

#### Features and Benefits

- Temperature range:
  - Moist film - minus10°C to +180°C
  - Dry film up to +550°C
- ROCOL CHAINGUARD 550 should be applied below 120°C to achieve full penetration of the graphited lubricating solids.
- The base fluid evaporates cleanly, leaving no carbonised residues, as the oven is gradually brought up to full operating temperature.
- The product does not attract dust/dirt when operating as a dry film above 180°C.
- The dry film coating reduces issues of potential contamination commonly associated with wet chain lubricants.
- ROCOL CHAINGUARD 550 offers excellent EP and anti-wear properties at high temperature giving reduced wear and longer chain life.
- Low fuming provides a clean and safe working environment.

#### Directions for Storage and Use

- ROCOL CHAIN GUARD 550 is a heavy duty lubricant designed for manual application by pressure oilcan.
- It can also be brushed onto the chain, after the removal of any heavy deposits of dirt or grime.
- ROCOL CHAINGUARD 550 should be applied to a cool chain (less than 120°C), when the ovens are cooling down, to ensure adequate penetration before the clean evaporation of the base fluid as the oven returns to operating temperature.
- Product should be stored unopened in the original container between +1°C and +40°C.
- Agitate well before use and ensure product remains in suspension throughout use.
- If stored in accordance with the above guidelines, shelf life is 2 years from date of manufacture.

#### Typical Applications

Paint stoving ovens, bakery oven chains and other similar applications where extreme temperature and/or a dry film chain lubricant are required.

#### Pack Sizes

Pack Size	Part Code
5L	22076
20L	22075

## Chainguard 550

### High temperature graphited chain and conveyor lubricant

Property	Test Method	Result
Colour	Visual	Dark grey liquid
Base Oil Type	N/A	Polyalkylene glycol
Performance Additives:	N/A	Graphite
Graphite Content	N/A	15%
Graphite Particle Size	N/A	95% less than 10 micron
Temperature Range:		
Moist film	N/A	-10°C to +180°C
Dry film	N/A	+180°C to +550°C
Kinematic Viscosity:	ASTM D445	
cSt @ 40°C	IP 71	200
cSt @ 100°C	IP 71	37
Density (g/cm <sup>3</sup> )	N/A	1.1

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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**SAFETY DATA SHEET**  
CHAINGUARD 550

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

**1.1. Product identifier**

**Product name:** CHAINGUARD 550

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

**Use of substance / mixture:** Chain 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:** This product has no classification under CHIP.

**2.2. Label elements**

**Label elements under CHIP:**

**Hazard symbols:** No significant hazard.

**2.3. Other hazards**

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

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

**3.2. Mixtures**

**Contains:** NON-HAZARDOUS SUBSTANCE1 - 100%

**Section 4: First aid measures**

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## 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.

**Ingestion:** Wash out mouth with water.

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

**Skin contact:** There may be mild irritation 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.

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

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Use water spray to cool containers. Alcohol or polymer foam. Dry chemical powder.  
Carbon dioxide.

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

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

### 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:** 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:** Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

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

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

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

[cont...]

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## 7.3. Specific end use(s)

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** Not applicable.

### 8.2. Exposure controls

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

**Respiratory protection:** Respiratory protection not normally required.

**Hand protection:** Protective 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:** Liquid

**Colour:** Black

**Odour:** Barely perceptible odour

**Evaporation rate:** Negligible

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

**Solubility in water:** Insoluble

**Viscosity:** Oily

**Kinematic viscosity:** 200 cSt

**Viscosity test method:** Kinematic viscosity in 10<sup>-6</sup> m<sup>2</sup>/s at 40°C (ISO 3104/3105)

**Boiling point/range°C:** > 150

**Melting point/range°C:** < -10

**Flash point°C:** > 150

**Autoflammability°C:** > 200

**Relative density:** 1.1

### 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

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat. Direct sunlight.

[cont...]

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## 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 mild irritation 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.

## 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:** Non-volatile. Insoluble in water. 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.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

[cont...]

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## 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.

Compiled in accordance with REACH.

**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.