



# Merton Group UK Ltd

*Cleaning and Hygiene Products That Don't Cost the Earth*

## HEALTH AND SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**PRODUCT NAME:** ROCK SALT

**PART NO:** 0707

**SUPPLIER:** Merton Group UK Limited  
Merton Business Park  
Foxholes Road  
Leicester  
LE3 1TH

Tel: 0116 231 4040  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>TYPICAL ANALYSIS ON DRY BASIS</u>	<u>%</u>
Sodium Chloride NaCl	92.3
Calcium Sulphate Ca504	1.2
Magnesium Chloride MgC12)	0.1
Calcium Chloride CaC12)	
Insoluble Matter (chiefly marl/minor impurities)	6.3
Moisture Content	Less than 1%

The sodium chloride content of rock salt is variable and depends on the amount of Marl in the strata being mined. It is treated with an anti-caking agent which minimises caking during prolonged storage.

Typical particle size: 35% between 3 and 9.5mm (1/8" and 3/8"). 20% between 1.5 and 3mm (1/16" and 3/8") 45% below 1.5mm (1/16").





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## 3. HAZARDS IDENTIFICATION

### PHYSICAL AND ENVIRONMENTAL:

Non-hazardous to living resources (4). Spillage will affect vegetation. See ecological information.

### ADVERSE HUMAN HEALTH EFFECTS:

Unlikely to present a health hazard in normal industrial use.

See Toxicological information.

## 4. FIRST AID MEASURES

### INGESTION:

Vomiting will probably occur. Providing the patient is conscious, give plenty of liquid to drink. Obtain medical attention, especially if vomiting has not occurred.

### SKIN:

Brush off excess material and wash affected area with water.

### EYES:

Irrigate eye thoroughly with water for at least 10 minutes, holding the eyelids apart if necessary. Obtain medical attention if necessary.

### INHALATION:

The product is non-dusty and is unlikely to pose a hazard by this route.

### MEDICAL ASSISTANCE:

Symptomatic treatment and supportive therapy as indicated.

## 5. FIRE FIGHTING MEASURES

### SPECIAL PROTECTIVE EQUIPMENT:

Non-combustible. May generate irritant fumes in a fire.

### SUITABLE EXTINGUISHING MEDIA:

Select extinguishing medium appropriate to other materials involved and/or to the circumstances of the fire.

### SPECIAL EXPOSURE HAZARDS:

Non-combustible. Stable under normal conditions.

Salt withstands temperatures up to its melting point and beyond without decomposing but may emit irritant vapour in a fire.



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## 6. ACCIDENTAL RELEASE MEASURES

### METHODS FOR CLEANING UP:

Small and large spillages – Sweep spilt product aside to a safe place and transfer to suitable container for subsequent disposal. If acceptable to public authorities, flush the product to drain with plenty of water.

Dispose of hazardous waste in accordance with waste disposal and water authority regulations. See disposal considerations and environmental precautions.

### PERSONAL PRECAUTIONS:

Wear appropriate protective clothing when dealing with spillages – see exposure controls.

### ENVIRONMENTAL PRECAUTIONS:

If size of spillage warrants and has contaminated water courses, drains or vegetation, advise appropriate authorities.

## 7. HANDLING AND STORAGE

### HANDLING:

Exposure by inhalation or skin contact should be minimised by good industrial hygiene practice.

Wear appropriate protective clothing.

See exposure control. Safety showers and eye baths should be available in areas where accidental exposure is possible.

Ensure adequate ventilation to keep the airborne concentration as low as possible.

Extinguish ignition sources. No smoking.

The product should be kept in a closed system away from strong acids.

### STORAGE:

Store in a cool, dry, well ventilated area, away from incompatible chemicals or materials. See stability and reactivity.

Prevent static electricity, generated during pneumatic conveying.

Ensure pipelines and metallic parts of tanks are earthed before and during unloading.

The product may be stored in polythene or in stainless steel containers for bulk quantities.

Do not store in other metallic containers.





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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>HAND PROTECTION:</b>	Wear PVC or rubber gloves.
<b>EYE PROTECTION:</b>	Wear chemical goggles. Eye baths should be provided at places where accidental exposure may occur.
<b>SKIN PROTECTION:</b>	Wear cotton overalls, headgear and rubber boots. Showers should be provided at places where accidental exposure may occur.
<b>RESPIRATORY PROTECTION:</b>	Occupational exposure limits not assigned by HSE(1) or ACGIH(2). Recommended limit: OEL (8hr TWA) – 10mgm-3 (Total dust), OEL (8hr TWA) – 5mgm-3 (Respirable dust).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	White or brown crystals or varying fineness.
<b>ODOUR:</b>	Odourless
<b>pH:</b>	7
<b>VAPOUR DENSITY:</b>	No data
<b>FLASH POINT:</b>	N/A
<b>SOLUBILITY IN WATER:</b>	>360g/l
<b>AUTO-IGNITE TEMPERATURE:</b>	N/A
<b>CHEMICAL SYNONYMS:</b>	Sodium Chloride, Halite
<b>MOLECULAR MASS:</b>	58.45
<b>FREEZING POINT °C:</b>	795°C
<b>VISCOSITY:</b>	N/A
<b>LETHAL DOSAGE:</b>	3000mg/kg (rat)
<b>SPECIFIC GRAVITY @ 20°C:</b>	1200kg/l
<b>VAPOUR PRESSURE:</b>	2.4mmHg 747°C
<b>BOILING POINT °C:</b>	1413°C



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## 10. STABILITY AND REACTIVITY

### CONDITIONS TO AVOID:

Avoid exposure to moisture and humid atmospheres and draughts.

The product is highly hygroscopic above 75% relative humidity.

Avoid a build-up of static electricity and exposure to sparks – see Storage.

### MATERIALS TO AVOID:

Reacts vigorously with sulphuric and nitric acids to liberate acid fumes. Aluminium, brass, tin and zinc are readily attacked if moisture present.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen Chloride gas is evolved with sulphuric and nitric acids.

## 11. TOXICOLOGICAL INFORMATION

The product exhibits no acute toxicity by a single exposure.

However, the product may be harmful if ingested in large quantities and show acute toxicity.

Ingestion may cause nausea, vomiting and diarrhoea and can lead to drowsiness or unconsciousness.

Chronic effects – may cause withdrawal of fluid from the skin.

Ingestion of hypertonic solutions can unbalance fluid and electrolyte content of the body.

Less than 1 tablespoon may severely poison an infant and may prove fatal.

## 12. ECOLOGICAL INFORMATION

No evidence of bio-accumulation or tainting of seafood (4).

Non-hazardous to living resources 96 hr LC50 > 1000mg/l (4).





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## 13. DISPOSAL CONSIDERATIONS

- DISPOSAL DANGERS:** Treat as for spillages. Wear appropriate protective clothing – see Accidental Release Measures. Care should be taken to ensure accidental mixing with acids, in drains is avoided.
- DISPOSAL METHODS:** Treat as for spillages – see accidental release measures.
- Dispose of any hazardous waste in accordance with waste disposal or water authority regulations.

## 14. TRANSPORT INFORMATION

Not assigned in the following:

SI 1992/743 The Road Traffic (Carriage of Dangerous Substances in Road Tankers and Tank Containers) Regulations.

SI 1993/1746 The Chemicals (Hazard Information and Packaging) Regulations.

SI 1992/742 Road Traffic (Carriage of Dangerous Substances in Packages etc.) Regulations.

See Regulatory Information.

## 15. REGULATORY INFORMATION

Classification: The product is not a dangerous substance under the classification, packaging and labelling regulations (3).

Phrases – Under the CPL regulations (3) Risk and Safety Phrases are not assigned to the product – see other information.

## 16. OTHER INFORMATION

- TRAINING ADVICE:** For all practical purposes the product is considered to be non -toxic.
- Salt is an essential constituent of the diet. It provides important body electrolytes and is the source of hydrochloric acid present in the gastric juices. The blood stream contains nearly 1% sodium chloride.



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## 16. OTHER INFORMATION (continued)

### QUALITY OF PRODUCT:

The product is manufactured to be friable (capable of being easily crumbled between hands and fingers).

The salt contains an anti-caking additive which protects outdoor bulk stock from forming any non-friable crusts.

### RECOMMENDED USES AND RESTRICTIONS:

Used mainly on highways for winter maintenance and for refining scrap aluminium.

### DATA SOURCES:

1. HSE Guidance Note EH40 Occupational Exposure Limits (Latest Edition).
2. ACGIH (Threshold Limit Values and Biological Exposure Indices) 1985-86.
3. Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (SI No3247) (CHIP2).
4. IMO Reports and Studies No. 35 (The Evaluation of Hazards of Harmful Substances Carried by Ships) 1989.
5. IMDG Code (International Maritime Dangerous Goods Codes) 1990.
6. Control of Substances Hazardous to Health Regulations (SI 1988/1657).

This data sheet complies with regulation 6 of CHIP2, which implements Article 27 of the Dangerous Substances Directive (67/548/EEC) as amended by the seventh amendment (92/32/EEC), Article 10 of the Dangerous Preparations Directive (88/379/EEC) and the Safety Data Sheets Directive (91/155/EEC) as amended by Directive 93/112/EEC).

The health hazard and general information contained within this Material Safety Data Sheet are given as a guide to the precautions required to maintain a safe work environment.