



Clemas & Co Ltd

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Quadrapower OR

PRODUCT: Q3OR

CITRUS ACTIVATED HIGH PRESSURE DETERGENT

A highly concentrated, heavy-duty high pressure detergent. Designed to remove traffic film or degrease engines and chassis. Contains a natural citrus solvent to enhance cleaning. Other specialist applications include cleaning of buildings, concrete floors, paved areas, marine equipment and engineering components.

Directions

Optimum working concentration is 0.25% at the point of application, with either hot or cold water. Pre-dilute with up to four equal volumes of water if required. For the greatest safety and economy, adjust the detergent feed to be just sufficient to give the required cleaning action. Minimise contact with alkali sensitive surfaces. Rinse the cleaned surface with water, not allowing the cleaning solution to dry on. Machine manufacturers recommend you run plain water through the machine after use.

Please refer to product safety data sheet before use. Use only as directed.

Health and Safety

CHIP Classification: Corrosive

R34 Causes burns

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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

S28 After contact with skin, wash immediately with plenty of water

S2 Keep out of reach of children

R35 Causes severe burns

R22 Harmful if swallowed

R36/38 Irritating to eyes and skin

R41 Risk of serious damage to eyes

PRODUCT SAFETY DATA SHEET

IDENTIFICATION

Product Name: Quadrapower OR
Description: Citrus Activated High Pressure Detergent
Product Code: Q3OR
Supplier: Clemas & Company Limited
Units A3 & A4
Northway Trading Estate
Tewkesbury
Glos GL20 8JH
Tel: 01684 850777
Fax: 01684 850707

COMPOSITION/INFORMATION INGREDIENTS

Sodium hydroxide	1310-73-2	1-5%	C R35
Trisodium nitrilotriacetate	5064-31-3	5-15%	Xi R36
Sodium metasilicate	6834-92-0	1-5%	C R34
Anionic surfactant	1300-72-7	1-5%	Xi R36
Nonionic surfactant	68439-46-3	1-5%	Xn R22 R41
Anionic surfactant	13150-00-0	1-5%	Xi R36/38

HAZARDS IDENTIFICATION

CHIP CLASSIFICATION: Corrosive

EYE HAZARD: Causes burns.

SKIN HAZARD: Causes burns.

RESPIRATORY HAZARD: Breathing spray mist may cause irritation.

FLAMMABILITY HAZARD: Not combustible.

OTHER HAZARDS: Not applicable.

FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water, holding eyelids apart, for at least 10 minutes. Seek medical assistance immediately.

SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and water. Seek medical attention immediately.

INHALATION: If irritation occurs, remove to fresh air, keep warm and at rest, seek medical attention.

INGESTION: Do not induce vomiting. If conscious, give water to drink and seek medical assistance immediately.

FIRE FIGHTING MEASURES: Not applicable.

ACCIDENTAL RELEASE: Small quantities, flush to foul sewer with a large quantity of water. Large quantities, contain and absorb or pump into suitable containers for disposal.

HANDLING & STORAGE: Store in a cool, dry place, protected from frost and away from acids and strong oxidising agents. Store upright in original containers. Shelf life: 24 months in good conditions.

EXPOSURE CONTROLS/PERSONAL PROTECTION

These measures are suggested on the basis of general use methods and may not be appropriate to all potential users of the product. The user responsible for carrying out a full risk assessment of their specific processes and systems of work.

EYE PROTECTION: Wear a full face visor to BS EN 166 39B.

HAND PROTECTION: Wear pvc or latex gloves. Exact choice of glove depends on specific risk assessments.

BODY PROTECTION: As necessary to prevent contact.

RESPIRATORY PROTECTION: Use in a well ventilated area, avoid breathing spray mist, wear a protective mask to EN149 if necessary.

OCCUPATIONAL EXPOSURE LIMIT

Sodium hydroxide 2mg/m³ OES 15 min STEL

PHYSICAL & CHEMICAL PROPERTIES

Appearance: Orange Liquid.

Odour: Characteristic, citrus

pH: 11.8 1% in water (typical)

Boiling Point: 100°C

Melting Point: Not applicable

Flash Point: Not applicable

Auto-ignition temp: Not applicable

Explosive properties: Not applicable

Oxidising properties: Not applicable

Vapour pressure: 17.5 mm Hg at 20°C

Relative density at 20°C (typical): 1.142

Solubility: Miscible with water

Viscosity: Free flowing

STABILITY & REACTIVITY

Conditions to avoid: Extremes of temperature.

Materials to avoid: Incompatible with strong oxidising agents, acids and alkali sensitive metals such as aluminium..

Hazardous decomposition products: None known

TOXICOLOGICAL INFORMATION

Eye Contact: Causes burns.

Skin Contact: Causes burns.

Inhalation: Breathing spray mist may cause irritation.

Ingestion: Moderate toxicity. Will cause irritation and damage to gastro-intestinal tract due to alkalinity.

Long Term: Based on current knowledge, no long term effects are anticipated if used correctly.

ECOLOGICAL INFORMATION

Water based product. All organic ingredients are biodegradable when well diluted. May affect aquatic organisms due to high pH if released into water courses untreated.

Volatile organic content 0.25% w/w 2.855 g/l

DISPOSAL CONSIDERATIONS

Process effluent can normally be discharged to foul sewer (subject to consent limits). Large quantities; dispose via a licensed chemical waste contractor.

TRANSPORT INFORMATION

Transport Classification: Corrosive

UN Number: 1760 Transport Class: 8.

Packing Group: 3.

REGULATORY INFORMATION

CHIP Classification: Corrosive

Please see front of data sheet for further information.

This product should be stored, handled and use in accordance with good industrial practice and in conformity with legal regulations. The information this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements are thus should not be constructed as guaranteeing specific properties. It is for the users to satisfy themselves of the suitability of this product for their own applications.

Q3OR. Thursday, January 17, 2008