

PRODUCT DATA SHEET

Application details and Health and Safety Data

Product Code: TK100

Teknon 100

Multi purpose laboratory detergent

An exceptional surface-active cleaner and radioactive decontaminator for use in laboratory, medical and specialised industrial applications. Ideal for use on glassware, stainless steel, ceramics, rubber and many plastics.

Decontaminates at least 35% better than the market leader. (Independent testing at Cranfield University on typical animal, vegetable and mineral contaminants).

Directions for use

Teknon 100 has been developed for use by soaking or ultrasonic agitation. For most applications, a solution of 1-2% is adequate. For heavy duty cleaning, use a stronger solution and increase the contact time as necessary. The product solution can be heated to 60°C where appropriate. Rinse cleaned surfaces thoroughly immediately after cleaning. Avoid contact with alkali sensitive materials such as aluminium, zinc and polycarbonates. pH 10.6 at 1% solution.

- WIDE SPECTRUM CLEANER
- ULTRASONIC COMPATIBLE
- RADIOACTIVE DECONTAMINATOR
- FREE RINSING
- BIODEGRADABLE
- PHOSPHATE FREE

CHIP 3 HEALTH AND SAFETY DATA SHEET

Section 1 Identification of the substance/preparation and company

Product code TK100
Name: Teknon 100
Intended use: Multi purpose laboratory detergent
Supplier: Teknon Products
Bateman Street
Derby

DE23 8JL

Phone: 01332 268524 Fax: 01332 295941

Emergency outside office hours tel:

Web: www.teknon.co.uk Email: info@teknon.co.uk

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Section 2 Composition/information on ingredients

Material	CAS number	Level	Hazards (see section 16)
Trisodium nitrilotriacetate	5064-31-3	5-15%	Xn R22 R36/38
Sodium hydroxide	1310-73-2	0.5-2.0%	C R35
Anionic surfactant	1300-72-7	1-5%	Xi R36
Anionic surfactant	13150-00-0	1-5%	Xi R36/38

Section 3 Hazards identification (Undiluted product)

CHIP classification: Irritant

Eye hazard: Will cause irritation.

Skin hazard: Will cause irritation.

Respiratory hazard: Breathing spray mist may cause irritation.

Flammability hazard: Not combustible.

Other hazards:

Section 4 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 water and seek medical attention if irritation persists.

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

Ingestion: Do not induce vomiting. If conscious, give water to drink. Seek medical assistance immediately.

Section 5 Fire fighting measures

Not applicable.

Section 6 Accidental release measures

Small quantities, flush to foul sewer with a large quantity of water.

Large quantities, contain and absorb or pump into suitable containers for disposal.

Section 7 Handling and storage

Store in a cool, dry place protected from frost and away from acids and strong oxidising agents. Store upright in original containers.

Directions for use: Teknon 100 has been developed for use by soaking or ultrasonic agitation. For most applications, a solution of 1-2% is adequate. For heavy duty cleaning, use a stronger solution and increase the contact time as necessary. The product solution can be heated to 60°C where appropriate. Rinse cleaned surfaces thoroughly immediately after cleaning. Avoid contact with alkali sensitive materials such as aluminium, zinc and polycarbonates. pH 10.6 at 1% solution.

Shelf life: 24 months in good conditions

Section 8 Exposure controls/personal protection

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

Eye protection: Wear chemical splash goggles to BS EN 166 34B

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.

Other protection:

Personal protective equipment:



Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.

Occupational exposure limits

Sodium Hydroxide

2mg/m³

OES 15 min STEL

Section 9 Physical and chemical properties

Appearance Colourless liquid

Odour: Mild, characteristic.

pH: 10.6 1% in water (typical).

Boiling point: 100°C.

Melting point: Not applicable.

Flash point: Not applicable.

Auto-ignition temperature: Not applicable.

Explosive properties: Not applicable.

Oxidising properties: Not applicable.

Vapour pressure: 17.5mm Hg at 20°C.

Relative density at 20 C: 1.115

Solubility: Miscible with water.

Viscosity: Free flowing.

Section 10 Stability and reactivity

Conditions to avoid: Extremes of temperature.

Materials to avoid: Incompatible with strong oxidising agents and acids.

Hazardous decomposition products None known.

Section 11 Toxicological information

Eye contact: Will cause irritation.

Skin contact: Will cause irritation.

Inhalation: Breathing spray mist may cause irritation.

Ingestion: Moderate toxicity, will cause irritation to gastro-intestinal tract due to alkalinity.

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

Section 12 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 % w/w 0 g/l

Section 13 Disposal considerations

Process effluent can normally be discharged to foul sewer (subject to consent limits).

Large quantities, dispose via a licensed chemical waste contractor.

Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

Section 14 Transport information

Transport Classification: Not classified

UN number not classified Transport class Packing group:

Section 15 Regulatory information

CHIP Classification Irritant



Irritant

Product risk and safety phrases

R36/38 Irritating to eyes and skin.

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.

S2 Keep out of reach of children.

Relevant UK law: Chemicals (hazard information and packaging) Regulations (CHIP). Control of substances hazardous to health regulations (COSHH, COSHH essentials). For guidance see www.hse.gov.uk, www.dti.gov.uk/chemicals.

Section 16 Other information

R phrases relating to ingredients (see section 2)

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

R35 Causes severe burns.

R36 Irritating to eyes.

This product should be stored, handled and used in accordance with good industrial practice and in conformity with legal regulations. The information in 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 and thus should not be construed as guaranteeing specific properties. It is for users to satisfy themselves of the suitability of this product for their own applications.