

TITLE: METROCLENS

**1. Identification of Substance and Company**

Metroclens

1.1 Manufacturer: Metrodent Limited, Lowergate Works, Lowergate, Paddock, Huddersfield, HD3 4EP. Tel: 01484 461616, Fax: 01484 462700

**2. Composition Information on ingredients**

Ingredient Name	CAS No.:	Content	Health	Risk
2-Butoxyethanol	111-76-2	1.5%	Xn	20/21/22,37
Sodium Hydroxide	1310-73-2	1.5%	C	35
Trisodium Nitrilo Triacetate	5064-31-3	1.5%	Xi,Xn	22,36
n-(2-Carboxethyl)-N-Dodecyl Monosodium Salt	90170-43-7	1.5%	Xi	36
Nonyl Phenol Ethoxylate	9016-45-9	1.5%	Xn,N	22,36/38,53

**3. Hazard Identification**

Causes Burns

**4. First Aid Measures**

General:	If medical attention is required present a copy of this datasheet to the physician.
Inhalation:	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion:	Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available.
Skin:	Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.
Eyes:	Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

**5. Fire Fighting Measures**

Extinguishing Media: This material is not flammable. Use extinguishing media appropriate for surrounding fire.

Special fire fighting procedures:

Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

Unusual fire and explosion hazards:

No unusual fire or explosion hazards noted.

**6. Accidental Release Measures**

Personal Precaution in Spill: Wear suitable protective clothing when dealing with large spillages. Avoid contact with skin, eyes and clothing. Precautions to protect environment: Prevent products access into water courses. Notify authorities if large amounts of the material have entered a watercourse.

Spill Clean Up Methods: General:-Stop leak if possible without risk. Do Not touch spilled material! Inform authorities if large amounts are involved. Collect:- Collect with noncombustible absorbent material. Flush with water. Dike for large spills.

**7. Handling and Storage**

Usage Precautions: Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Wear full protective clothing for prolonged exposure and/or high concentrations. Protect from frost.

Storage Precautions: Keep in cool, dry, ventilated storage and closed containers. Keep in original container.

Storage Criteria: Corrosive storage.

**8. Limit of Exposure and Personal Protective Equipment**

Ingredient name	CAS No.:	STD:	LT Exp.8HRS:	ST Exp.15 MIN:
2-Butoxyethanol	111-76-2	OES	25 ppm(Sk)	No std.
Sodium Hydroxide	1310-73-2	OES	No std.	2 mg/m3

Ingredients Comments: OES=Occupational Exposure Standard

Protective Equipment: Goggles, Gloves, Face Visor.

Ventilation: Provide adequate general and local exhaust ventilation.

Respirators: Wear suitable respiratory protection.

Protective Gloves: Protective gloves must be used if there is a risk of direct contact or splash.

Eye Protection: Wear splash-proof eye goggles to prevent any possibility of eye contact. Use face shield in case of splash risk.

Other Protection: Wear appropriate clothing to prevent reasonably probable skin contact.

Hygienic Work Practices: Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated.

**9. Physical and Chemical Properties**

Appearance:	Clear Liquid	
Colour:	Yellowish	
Odour/Taste:	Detergent	
Solubility Description:	Miscible with water	
Density/Specific Gravity (g/ml)	1.090	Temperature (°C): 20
pH-Value, Conc. Solution:	13.0	
Ph-Value, Diluted Solution:	12.5	Concentration (%M): 1-2

## 10. Stability and Reactivity

Stability: No particular stability concerns

Conditions to Avoid: Avoid contact with acids. Contact with zinc or aluminium may liberate highly flammable hydrogen gas.

Materials to Avoid: Attacks many metals with the liberation of hydrogen gas which is highly flammable and may form an explosive mixture with air.

Hazardous Decomp. Products: Fire and high temperatures create: Carbon dioxide (CO<sub>2</sub>). Carbon Monoxide (CO). Nitrous gases (NO<sub>x</sub>).

## 11. Toxicological Information

No information available on the product itself.

Inhalation: Repeated exposure may cause chronic upper respiratory irritation.

Ingestion: Causes burns. Swallowing concentrated chemical may cause severe internal injury.

Skin: Causes burns. Contact with concentrated chemical may cause severe skin damage. May cause serious chemical burns of the skin.

Eyes: Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight. Irritation, burning, lacrimation, blurred vision after liquid splash.

Substance	Toxic Dose-LD 50%
2-Butoxyethanol	1480 mg/kg (oral rat)
Sodium Hydroxide	500 mg/kg (oral-rbt)
Trisodium Nitrilo Triacetate	1450 mg/kg (oral rat)
N-(2-Carboxethyl)-N-Dodecyl Monosodium Salt	>5000 mg/kg (oral rat)
Nonyl Phenol Ethoxylate	>1300 mg/kg (oral rat)
Toxic Dose-LD 50 Skin:	2000 mg/kg (skn rbt)

## 12. Ecological Information

Degradability: No data available on the product itself.

Acute Fish Toxicity: No data available on the product itself.

Water Hazard Classification: No data available on the product itself.

Substance: Nonyl Phenol Ethoxylate

EC 50, 48 HRS, Dahnna, mg/l: 6.4 mg/l

Degradability: This material complies with the minimum 80% biodegradability requirement of EEC directive 82/242; COD 2.15 g/g

## 13. Disposal Considerations

Disposal Methods: Dilute with water, neutralise with HCl, discharge to sewer with lots of water. Dispose of in accordance with local authority requirements.

## 14. Transportation Information

The product is classified as corrosive for transportation.

Road Transport:

UN No. Road: 1719  
ADR Class No.: Class 8: Corrosive substance  
ADR Item no.: 42°(b)  
Hazard No. (ADR): 80 Corrosive or slightly corrosive substance

ADR Marginal: 2801

ADR Label No.: 8

Hazchem Code: 2R

Proper Shipping Name I: Caustic Alkali Liquid, n.o.s. (Contains Sodium Hydroxide)

Rail Transport:

RID Class No.: 8  
RID Item No.: 42°(b)

Sea Transport:

UN No. SEA: 1719  
IMDG Class: 8

IMDG Page No.: 8136

IMDG Pack GR.: II

EmS No.: 8-06

MFAG Table No.: 705

Air Transport:

UN No., Air: 1719

ICAO Class: 8

Air Pack GR.: II

## 15. Regulatory Information

Label for Supply:	Corrosive
Risk Phrases:	R-34 Causes Burns
Safety Phrases:	S-1/2 Keep locked up and out of reach of children S-20 When using do not eat or drink S-24/25 Avoid contact with skin and eyes S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
UK regulatory references:	Chemicals (Hazard Information and Packing for supply) Regulations 1997.
Statutory Instruments:	Control of substances hazardous to health.
Approved code of practice:	Safety Data Sheets for Substances and Preparations L37. Classifications and Labelling of Substances and Preparations Dangerous for Supply.
Guidance Notes:	Occupational Exposure Limits EH40

## 16. Other Information

Revision Comments: The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.

Revision Date: 6/4/01

Rev.No./REPL.

SDS Generated: May 1998