

# SAFETY DATA SHEET

## PHOTORESIST DEVELOPER

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

PRODUCT NAME                   PHOTORESIST DEVELOPER  
PRODUCT NO.                   EPDN250ML  
SUPPLIER                        ELECTROLUBE. A division of HK  
                                      WENTWORTH LTD  
                                      KINGSBURY PARK, MIDLAND ROAD  
                                      SWADLINCOTE  
                                      DERBYSHIRE, DE11 0AN  
                                      UNITED KINGDOM  
                                      +44(0)1283 222 111  
                                      +44(0)1283 550 177

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
DISODIUM METASILICATE	229-912-9	6834-92-0	1-5%	C;R34 Xi;R37
SODIUM CARBONATE	207-838-8	497-19-8	1-5%	Xi;R36
SODIUM HYDROXIDE	215-185-5	1310-73-2	1-5%	C;R35
TRISODIUM PHOSPHATE	231-509-8	7601-54-9	5-10%	C;R34. Xi;R36/38.

The Full Text for all R-Phrases are Displayed in Section 16

#### COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

### 3 HAZARDS IDENTIFICATION

Causes burns.

CLASSIFICATION                   C;R34.

### 4 FIRST-AID MEASURES

#### INHALATION

Keep the affected person warm and at rest. Get prompt medical attention.

#### INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!

#### SKIN CONTACT

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if irritation persists after washing.

#### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

### 6 ACCIDENTAL RELEASE MEASURES

#### SPILL CLEAN UP METHODS

DO NOT TOUCH SPILLED MATERIAL! Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

#### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container.

## PHOTORESIST DEVELOPER

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
SODIUM HYDROXIDE	WEL				2 mg/m3

## INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

## PROTECTIVE EQUIPMENT



## ENGINEERING MEASURES

No particular ventilation requirements.

## HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

## EYE PROTECTION

Use approved safety goggles or face shield.

## OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

## HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. When using do not eat, drink or smoke.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Varying		
ODOUR	Odourless		
BOILING POINT (°C)	100	MELTING POINT (°C)	0
RELATIVE DENSITY	1.100 @ °c	VAPOUR PRESSURE	@ °c

## 10 STABILITY AND REACTIVITY

## STABILITY

Stable under normal temperature conditions.

## CONDITIONS TO AVOID

Reacts with alkalis and generates heat.

## HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Corrosive gases/vapours/fumes of: Nitric acid (HNO<sub>3</sub>). Nitrous gases (NO<sub>x</sub>).

## 11 TOXICOLOGICAL INFORMATION

## INHALATION

No specific health warnings noted.

## INGESTION

May cause burns in mucous membranes, throat, oesophagus and stomach.

## SKIN CONTACT

Causes burns.

## EYE CONTACT

Causes burns.

## HEALTH WARNINGS

RESPIRATORY SYSTEM. Serious damage to the lining of nose, throat and lungs. Swallowing concentrated chemical may cause severe internal injury.

## 12 ECOLOGICAL INFORMATION

## ECOTOXICITY

Not regarded as dangerous for the environment.

## 13 DISPOSAL CONSIDERATIONS

**PHOTORESIST DEVELOPER**

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand, dispose in licensed special waste.

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	8		
PROPER SHIPPING NAME	CAUSTIC ALKALI LIQUID, N.O.S. (TRISODIUM PHOSPHATE, DISODIUM METASILICATE)		
UN NO. ROAD	1719	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	HAZARD No. (ADR)	80
ADR LABEL NO.	8	HAZCHEM CODE	2R
CEFIC TEC(R) NO.	80GC5-II+III	RID CLASS NO.	8
RID PACK GROUP	III	UN NO. SEA	1719
IMDG CLASS	8	IMDG PAGE NO.	8195
IMDG PACK GR.	III	EMS	F-A, S-B
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1719	ICAO CLASS	8
AIR PACK GR.	III		

**15 REGULATORY INFORMATION**

## LABELLING



Corrosive

## CONTAINS

SODIUM HYDROXIDE  
TRISODIUM PHOSPHATE

## RISK PHRASES

R34 Causes burns.

## SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S27 Take off immediately all contaminated clothing.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
S24/25 Avoid contact with skin and eyes.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

## UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations.

## ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980. Control of Pollution Act 1974.

## EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EEC. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

## APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

## GUIDANCE NOTES

Workplace Exposure Limits EH40.

**16 OTHER INFORMATION**

## GENERAL INFORMATION

CN No 34029010

