

# SAFETY DATA SHEET

## PHOTORESIST DEVELOPER

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

**PRODUCT NAME:** PHOTORESIST DEVELOPER

**PART No.:** EPDN250ML

**SUPPLIER:** H K WENTWORTH PTY LIMITED  
P.O. BOX 339  
BROOKVALE, NSW 2100  
AUSTRALIA  
Tel: 02 9938 1566  
Fax: 02 9938 1566

### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

NAME			CONTENT
CAS No.:	EINECS Nr.:	CLASSIFICATION	
Trisodium Phosphate 7601-54-9	231-509-8	Xi R-36/38	5-10 %
SODIUM CARBONATE 497-19-8	207-838-8	Xi R-36	1-5 %
SODIUM HYDROXIDE 1310-73-2	215-185-5	C R-35	1-5 %
DISODIUM METASILICATE 6834-92-0	229-912-9	C R-34, 37	1-5 %

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

### 3. HAZARDS IDENTIFICATION:

Causes burns.

HAZARDOUS SUBSTANCE: DANGEROUS GOODS

### 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 personnel to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!

**SKIN:** 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.

**EYES:** 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 material is not flammable. Use extinguishing media appropriate for surrounding fire.

## 6. ACCIDENTAL RELEASE MEASURES:

**SPILL CLEANUP 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:** Keep in cool, dry, ventilated storage and closed containers.  
Keep in original container.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
SODIUM CARBONATE	497-19-8		No std.	No std.
SODIUM HYDROXIDE	1310-73-2	OES	No std.	2 mg/m3

**INGREDIENT COMMENTS:** OES = Occupational Exposure Standard.

**PROTECTIVE EQUIPMENT:**



**VENTILATION:** No particular ventilation requirements.

**PROTECTIVE GLOVES:** Use protective gloves.

**EYE PROTECTION:** Use approved safety goggles or face shield.

**OTHER PROTECTION:** Wear appropriate clothing to prevent any possibility of skin contact.

**HYGIENIC WORK PRACTICES:** 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. No eating or drinking while working with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Liquid.

**COLOUR:** Varying.

**ODOUR/TASTE:** Odourless or no characteristic odour.

**BOILING POINT (°C, interval):** 100      **Pressure:**

**MELT./FREEZ. POINT (°C, interval):** 0

**DENSITY/SPECIFIC GRAVITY** 1.100      **Temperature (°C):**

(g/ml):

**10. STABILITY AND REACTIVITY:**

<b>STABILITY:</b>	Normally stable.
<b>CONDITIONS TO AVOID:</b>	Reacts with alkalis and generates heat.
<b>HAZARDOUS DECOMP. PRODUCTS:</b>	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:**

<b>INHALATION:</b>	No specific health warnings noted.
<b>INGESTION:</b>	May cause burns in mucous membranes, throat, oesophagus and stomach.
<b>SKIN:</b>	Causes burns.
<b>EYES:</b>	Causes burns.
<b>HEALTH WARNINGS:</b>	RESPIRATORY SYSTEM. Serious damage to the lining of nose, throat and lungs. Swallowing concentrated chemical may cause severe internal injury.

**12. ECOLOGICAL INFORMATION:**

<b>ECOLOGICAL INFORMATION:</b>	Not regarded as dangerous for the environment.
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**13. DISPOSAL CONSIDERATIONS:**

<b>DISPOSAL METHODS:</b>	Dispose of in accordance with Local Authority requirements. Absorb in vermiculite or dry sand, dispose in licensed special waste.
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**14. TRANSPORT INFORMATION:**

LABEL FOR CONVEYANCE:



<b>UN No. ROAD:</b>	1760
<b>UK ROAD TRANSPORT CLASS:</b>	8
<b>UK ROAD PACK GR.:</b>	III
<b>ADR CLASS No.:</b>	8
<b>ADR CLASS:</b>	Class 8: Corrosive substances.
<b>ADR ITEM No.:</b>	III
<b>ADR MARGINAL:</b>	2801
<b>ADR LABEL No.:</b>	8

<b>HAZCHEM CODE:</b>	2X
<b>CEFIC TEC(R) No.:</b>	80GC9-II+III
<b>PROPER SHIPPING NAME I:</b>	CORROSIVE LIQUID, N.O.S. (DISODIUM METASILICATE, SODIUM HYDROXIDE)
<b>RID CLASS No.:</b>	8
<b>RID ITEM No.:</b>	III
<b>UN No. SEA:</b>	1760
<b>IMDG CLASS:</b>	8
<b>IMDG PAGE No.:</b>	8195
<b>IMDG PACK GR.:</b>	III
<b>EmS No.:</b>	F-A; S-B
<b>MFAG TABLE No.:</b>	See Guide
<b>MARINE POLLUTANT:</b>	No.
<b>UN No., AIR:</b>	1760
<b>ICAO CLASS:</b>	8
<b>AIR PACK GR.:</b>	III

## 15. REGULATORY INFORMATION:

### LABEL FOR SUPPLY:



<b>RISK PHRASES:</b>	R-34 Causes burns.
<b>SAFETY PHRASES:</b>	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-27 Take off immediately all contaminated clothing. 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).
<b>ENVIRONMENTAL LISTING:</b>	Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.
<b>EU DIRECTIVES:</b>	System of specific information relating to Dangerous Preparations. 91\155.
<b>STATUTORY INSTRUMENTS:</b>	Chemicals (Hazard Information and Packaging) Regulations.
<b>APPROVED CODE OF PRACTICE:</b>	Classification and Labelling of Substances and Preparations Dangerous for Supply.
<b>GUIDANCE NOTES:</b>	Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

## 16. OTHER INFORMATION:

<b>USER NOTES:</b>	CN No 34029010
<b>REVISION COMMENTS:</b>	Revised in accordance with CHIP3 and EU Directive 1999/45/EC
<b>ISSUED BY:</b>	Helen O'Reilly

**REVISION DATE:** MAY 2003

**REV. No./REPL. SDS GENERATED:** 0

**SDS No.:** 10505

**DISCLAIMER:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. The information contained in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification

**R-PHRASES (Full Text):** R-34 Causes burns. R-37 Irritating to respiratory system. R-36/38 Irritating to eyes and skin. R-36 Irritating to eyes. R-35 Causes severe burns.