MATERIAL SAFETY DATA SHEET
PHOTORESIST DEVELOPER

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

PRODUCT NAME
PHOTORESIST DEVELOPER

PRODUCT NO.
PDN
EPDN250ML
ZE

APPLICATION
Manufacture of electrical equipment

SUPPLIER
H K WENTWORTH PTY LIMITED
P.O. BOX 339
BROOKVALE, NSW 2100
AUSTRALIA
TEL: 02 9938 1566
FAX: 02 9938 1467
GENERAL MANAGER

EMERGENCY TELEPHONE
Tel: 029938 1566 between 8.30am and 5.00pm EST

PROPER SHIPPING NAME
CAUSTIC ALKALI LIQUID, N.O.S.

2 HAZARDS IDENTIFICATION

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.

The above phrases are the risks associated with the product

STATEMENT OF HAZARDOUS NATURE
HAZARDOUS SUBSTANCE (According to criteria of NOHSC). DANGEROUS GOODS (According to ADG Code).

DG CLASS
Class 8: Corrosive substances.

PACKING GROUP
III

UN NO.
1719

HAZCHEM CODE
2R

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content %</th>
<th>Classification (67/548)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRISODIUM PHOSPHATE</td>
<td>231-509-8</td>
<td>7601-54-9</td>
<td>5-10%</td>
<td>C;R34. Xi;R36/38.</td>
</tr>
<tr>
<td>DISODIUM METASILICATE</td>
<td>229-912-9</td>
<td>6834-92-0</td>
<td>1-5%</td>
<td>C;R34 Xi;R37</td>
</tr>
<tr>
<td>SODIUM CARBONATE</td>
<td>207-838-8</td>
<td>497-19-8</td>
<td>1-5%</td>
<td>Xi;R36</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>215-185-5</td>
<td>1310-73-2</td>
<td>1-5%</td>
<td>C;R35</td>
</tr>
</tbody>
</table>

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

COMPOSITION COMMENTS
Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels Ingredients are registered on AICS

4 FIRST-AID MEASURES
PHOTORESIST DEVELOPER

NOTES TO THE PHYSICIAN
Treat symptomatically

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.

HAZCHEM CODE
2R

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 dry, cool and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td></td>
<td>2 mg/m3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
PHOTORESIST DEVELOPER

APPEARANCE       Liquid
COLOUR            Varying
ODOUR             Odourless

BOILING POINT (°C) 100 (212 F)
MELTING POINT (°C) 0 (32 F)
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 (HNO3). Nitrous gases (NOx).

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION
No information available.

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

DISPOSAL METHODS
Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME CAUSTIC ALKALI LIQUID, N.O.S.
ADG CLASS Class 8 Corrosive Substance
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT No.
UN NO. 1719
ADG CLASS NO. 8
PHOTORESIST DEVELOPER

DG CLASS  
Class 8: Corrosive substances.

PACKING GROUP  
III

TUNNEL RESTRICTION CODE  
(E)

ADG LABEL NO.  
8

HAZCHEM CODE  
2R

UN NO. SEA  
1719

IMDG CLASS  
8

IMDG PACK GR.  
III

EMS  
F-A, S-B

UN NO. AIR  
1719

AIR CLASS  
8

AIR PACK GR.  
III

15 REGULATORY INFORMATION

LABELLING

Corrosive

CONTAINS  
TRISODIUM PHOSPHATE
SODIUM HYDROXIDE

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.

POISONS SCHEDULE NUMBER  
NONE

NATIONAL REGULATIONS AND REFERENCES

National Model Regulations for the Control of Workplace Hazardous Substances.
National Code of Practice for the Control of Workplace Hazardous Substances.
National Code of Practice for the Labelling of Workplace Substances.
National Code of Practice for the Preparation of Material Safety Data Sheets.
Approved Criteria for Classifying Hazardous Substances.
Exposure Standards for Atmospheric Contaminants in the Occupational Environment.

16 OTHER INFORMATION

REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

ISSUED BY  
Helen O'Reilly

REV. NO./REPL. SDS  
4

GENERATED

SDS NO.  
10431
PHOTORESIST DEVELOPER

RISK PHRASES IN FULL

R34 Causes burns.
R35 Causes severe burns.
R36/38 Irritating to eyes and skin.
R36 Irritating to eyes.
R37 Irritating to respiratory system.

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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.