SAFETY DATA SHEET
MULTIGRADE DEVELOPER 1+9

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

PRODUCT NAME
MULTIGRADE DEVELOPER 1+9

PRODUCT NO.
IP881111-1+9

INTERNAL ID
10145

APPLICATION
Photographic Developer Solution

CONTACT PERSON
HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email: trevor.rhodes@harmantech.com

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

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>HYDROQUINONE</td>
<td>204-617-8</td>
<td>123-31-9</td>
<td>&lt; 1</td>
<td>Carc. Cat. 3; Muta. Cat. 3; R68 Xn; R22 R43 Xi; R41 N; R50</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>215-185-5</td>
<td>1310-73-2</td>
<td>&lt; 1</td>
<td>c; R35</td>
</tr>
</tbody>
</table>

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

4 FIRST-AID MEASURES

GENERAL INFORMATION
No recommendation given, but first aid may still be required in case of accidental exposure. If in doubt, get medical attention!

INHALATION
Unlikely route of exposure as the product does not contain volatile substances.

INGESTION
Rinse mouth thoroughly.

SKIN CONTACT
Rinse immediately with plenty of water.

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. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

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

UNUSUAL FIRE & EXPLOSION HAZARDS
No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS
Fire creates: Irritating gases/vapours/fumes of: Sulphur dioxide.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS
Do not contaminate water sources or sewer. Absorb in vermiculite, dry sand or earth and place into containers. Contain Spill. Use large quantities of water to flush small spills to sanitary sewer if local regulations permit. Do not flush to septic tank. See Section 13 for disposal considerations. Flush with plenty of water to clean spillage area. Prevent discharge of larger quantity to drain.

7 HANDLING AND STORAGE
MULTIGRADE DEVELOPER 1+9

USAGE PRECAUTIONS
Avoid spilling, skin and eye contact. Read and follow manufacturer’s recommendations. Provide good ventilation.

STORAGE PRECAUTIONS
No special storage precautions noted.

STORAGE CLASS
Chemical storage.

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>HYDROQUINONE</td>
<td>WEL</td>
<td>0.5 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>WEL</td>
<td>2 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT

ENGINEERING MEASURES
Provide adequate ventilation. Must not be handled in confined space without sufficient ventilation.

RESPIRATORY EQUIPMENT
Respiratory protection not required.

HAND PROTECTION
Use protective gloves.

EYE PROTECTION
Use eye protection.

OTHER PROTECTION
Wear suitable protective clothing as protection against splashing or contamination.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE  Liquid Water-soluble
COLOUR       Colourless
ODOUR        No characteristic odour.
SOLUBILITY   Soluble in water.
BOILING POINT (°C)   >100 760 mm Hg
RELATIVE DENSITY  1.235 20
EVAPORATION RATE   1 H₂O (water)=1
pH-VALUE, DILUTED SOLUTION 10.45 - 10.55

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions.

CONDITIONS TO AVOID
Avoid excessive heat for prolonged periods of time. Avoid contact with acids.

HAZARDOUS POLYMERISATION
Will not polymerise.

MATERIALS TO AVOID
Avoid contact with other photographic solutions and/or cleaning compounds.

HAZARDOUS DECOMPOSITION PRODUCTS
Irritating gases/vapours/fumes of: Sulphur dioxide.
11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION
This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components that comprise the mixture.

INHALATION
No specific health warnings noted.

INGESTION
No specific health warnings noted.

SKIN CONTACT
The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.

EYE CONTACT
Irritating to eyes.

HEALTH WARNINGS
No specific health warnings noted.

Spray and vapour in the eyes may cause irritation and smarting.

OTHER HEALTH EFFECTS

ROUTE OF ENTRY
Ingestion. Skin and/or eye contact.

MEDICAL CONSIDERATIONS
May aggravate existing: Pre-existing eye problems.

<table>
<thead>
<tr>
<th>Name</th>
<th>Toxic Dose 1 - LD 50</th>
<th>Toxic Dose 2 - LD 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>320 mg/kg (oral rat)</td>
<td>&gt;900 mg/kg (skn-rat)</td>
</tr>
</tbody>
</table>

12 ECOLOGICAL INFORMATION

ECOTOXICITY
The product contains a substance which is harmful to aquatic organisms.

<table>
<thead>
<tr>
<th>Name</th>
<th>LC 50, 96 Hrs, FISH mg/l</th>
<th>EC 50, 48 Hrs, DAPHNIA, mg/l</th>
<th>IC 50, 72 Hrs, ALGAE, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>0.10-0.18 (Fathead Minnow)</td>
<td>0.05</td>
<td>1.0</td>
</tr>
</tbody>
</table>

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS
Used, diluted, and spent solutions may be allowed to be discharged to sanitary sewer by permit IF allowed by local regulations. Consult your local authority for advice. Waste may have to be pre-treated before discharge. Consult local authorities before discharging any waste to sewer. Do not discharge to septic system. Waste that cannot be discharged to sewer may have to handled by a licensed hazardous waste contractor. EU Waste Number: 090101

14 TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>ROAD TRANSPORT NOTES</th>
<th>No transport warning sign required.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAIL TRANSPORT NOTES</td>
<td>Not classified for road transport</td>
</tr>
<tr>
<td>SEA TRANSPORT NOTES</td>
<td>Not classified for sea transport</td>
</tr>
<tr>
<td>AIR TRANSPORT NOTES</td>
<td>Not classified for air transport</td>
</tr>
<tr>
<td>ADR CLASS</td>
<td>Not classified for transportation</td>
</tr>
</tbody>
</table>

15 REGULATORY INFORMATION
MULTIGRADE DEVELOPER 1+9

RISK PHRASES
NC Not classified.

SAFETY PHRASES
P14 Contains HYDROQUINONE. May produce an allergic reaction.

EU DIRECTIVES

APPROVED CODE OF PRACTICE
Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

GENERAL INFORMATION
HARMAN technology Ltd believe the information and recommendations contained herein are based on correct and factual data. However, no express or implied guarantee or warranty of any kind is made with respect to this information. Use this information only to supplement other information you have gathered and then make an independent determination about the completeness and suitability of all information to ensure the proper use and disposal of this product and the health and safety of employees and customers.

INFORMATION SOURCES

ISSUED BY
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REVISION DATE 09/08/2012

REV. NO./REPL. SDS 3
GENERATED

SAFETY DATA SHEET STATUS
Approved.

RISK PHRASES IN FULL
R35 Causes severe burns.
R22 Harmful if swallowed.
R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitisation by skin contact.
R68 Possible risk of irreversible effects.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.