

# SAFETY DATA SHEET

## ID-11 STOCK DEVELOPER

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

**PRODUCT NAME** ID-11 STOCK DEVELOPER  
**PRODUCT NO.** ID11DS  
**INTERNAL ID** 10138  
**APPLICATION** Photographic Developer Solution  
**CONTACT PERSON** HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email: trevor.rhodes@harmantechnology.com

### 2 HAZARDS IDENTIFICATION

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

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE	200-237-1	55-55-0	< 1	Xn;R22,R48/22 R43 N;R50/53
Disodium Tetraborate decahydrate	215-540-4	1303-96-4	< 1	Repr. Cat. 2;R60,R61.
HYDROQUINONE	204-617-8	123-31-9	< 1	Carc. Cat. 3;R40 Muta. Cat. 3;R68 Xn;R22 R43 Xi;R41 N;R50

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

## ID-11 STOCK DEVELOPER

**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

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
Disodium Tetraborate decahydrate	WEL	1 mg/m3				
HYDROQUINONE	WEL		0.5 mg/m3			

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

<b>APPEARANCE</b>	Liquid Water-soluble		
<b>COLOUR</b>	Colourless		
<b>ODOUR</b>	No characteristic odour.		
<b>SOLUBILITY</b>	Soluble in water.		
<b>BOILING POINT (°C)</b>	>100 760 mm Hg	<b>MELTING POINT (°C)</b>	<0
<b>RELATIVE DENSITY</b>	1.098 20	<b>VAPOUR PRESSURE</b>	- Not Known
<b>EVAPORATION RATE</b>	1 H2O (water)=1	<b>pH-VALUE, DILUTED SOLUTION</b>	8.6 - 8.7

### 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

**ID-11 STOCK DEVELOPER****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**

Hydroquinone: Carcinogen Category 3. Mutagen Category 3. ACGIH A3 IARC 3 IARC Animal Carcinogen List. IARC Int. Agency for Cancer Research.

**ROUTE OF ENTRY**

Ingestion. Skin and/or eye contact.

**MEDICAL CONSIDERATIONS**

May aggravate existing: Pre-existing eye problems.

<b>Name</b>	HYDROQUINONE
<b>Toxic Dose 1 - LD 50</b>	320 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	>900 mg/kg (skn-rat)
<b>Name</b>	bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE
<b>Toxic Dose 1 - LD 50</b>	237 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	>1000 mg/kg (skn-rat)
<b>Name</b>	Disodium Tetraborate decahydrate
<b>Toxic Dose 1 - LD 50</b>	2660 mg/kg (oral rat)

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**12 ECOLOGICAL INFORMATION**

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**ECOTOXICITY**

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

<b>Name</b>	HYDROQUINONE
<b>LC 50, 96 Hrs, FISH mg/l</b>	0.10-0.18 (Fathead Minnow)
<b>EC 50, 48 Hrs, DAPHNIA, mg/l</b>	0.05
<b>IC 50, 72 Hrs, ALGAE, mg/l</b>	1.0
<b>Name</b>	bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE
<b>LC 50, 96 Hrs, FISH mg/l</b>	0.25
<b>EC 50, 48 Hrs, DAPHNIA, mg/l</b>	0.02
<b>IC 50, 72 Hrs, ALGAE, mg/l</b>	10
<b>Name</b>	Disodium Tetraborate decahydrate

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**13 DISPOSAL CONSIDERATIONS**

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**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 be handled by a licensed hazardous waste contractor. EU Waste Number: 090101

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**14 TRANSPORT INFORMATION**

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<b>ROAD TRANSPORT NOTES</b>	No transport warning sign required. Not classified for road transport
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## ID-11 STOCK DEVELOPER

<b>RAIL TRANSPORT NOTES</b>	Not classified for rail transport
<b>SEA TRANSPORT NOTES</b>	Not classified for sea transport
<b>AIR TRANSPORT NOTES</b>	Not classified for air transport
<b>ADR CLASS</b>	Not classified for transportation.

### 15 REGULATORY INFORMATION

**RISK PHRASES**

NC Not classified.

**SAFETY PHRASES**

P14 Contains bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE, HYDROQUINONE. May produce an allergic reaction.

**EU DIRECTIVES**

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

**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**

European Photographic Chemical Industry Code of Practice For Classification And Labelling Material Safety Data Sheet, Misc. manufacturers. Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984.

**ISSUED BY**

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**REV. NO./REPL. SDS** 3

**GENERATED**

**RISK PHRASES IN FULL**

R22	Harmful if swallowed.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R40	Limited evidence of a carcinogenic effect.
R61	May cause harm to the unborn child.
R43	May cause sensitisation by skin contact.
R60	May impair fertility.
R68	Possible risk of irreversible effects.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50	Very toxic to aquatic organisms.