

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET

ID-11 Developer (Part A)

1. IDENTIFICATION

Product Name ID-11 Developer (Part A)
Product No. 1960457, 1960475
Internal Id 10009
Container Size 8g; 40g
Identification No. 3077
Identified uses Photographic Developer
Supplier Distributor
USA: Robert Distributors, 220 East Saint Clair St, Indianapolis, IN 46204
Tel:877-281-6405

Contact Person Contact Distributor: sales@robertsdistributors.com
Emergency Telephone USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse).

2. HAZARD(S) IDENTIFICATION

Appearance Crystals. Powder, dust
Color White / off-white. Cream.
Odor No characteristic odor.
GHS Pictogram



Signal Word Danger

Hazard Statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P273	Avoid release to the environment.
P280	Wear protective clothing, gloves, eye and face protection.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.

ID-11 Developer (Part A)

Contains	P501	Dispose of contents/container in accordance with local regulations.
	bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE	
	HYDROQUINONE	
GHS Classification	Physical and Chemical Hazards	Not classified.
	Human health	Acute Tox. 4 - H302; Eye Dam. 1 - H318; Skin Sens. 1 - H317; Muta. 2 - H341; Carc. 2 - H351; STOT RE 2 - H373
	Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label



Materials Causing Immediate
and Serious Toxic Effect.

Controlled Product Classification

This Product has been classified according to the hazard criteria of the Controlled Products Regulations and the MSDS contains all required information.

Inhalation

Dust may irritate respiratory system or lungs.

Ingestion

Harmful if swallowed. May cause discomfort if swallowed.

Skin Contact

Powder may irritate skin. May cause sensitization by skin contact. May cause allergic contact eczema.

Eye Contact

Irritation of eyes and mucous membranes. Repeated exposure may cause chronic eye irritation.

Health Warnings

Prolonged or repeated exposure may cause severe irritation. May cause skin irritation/eczema. May cause sensitization by skin contact. Dust may irritate respiratory system or lungs. May cause allergy. May cause hypersensitivity.

Route Of Entry

Inhalation. Ingestion. Skin and/or eye contact.

Medical Considerations

May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

3. COMPOSITION/INFORMATION ON INGREDIENTS

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE		10-30%
CAS No.: 55-55-0	EC No.: 200-237-1	
GHS Classification Acute Tox. 4 - H302; Skin Sens. 1 - H317; STOT RE 2 - H373; Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410		
HYDROQUINONE		50-70%
CAS No.: 123-31-9	EC No.: 204-617-8	
GHS Classification Acute Tox. 4 - H302; Eye Dam. 1 - H318; Skin Sens. 1 - H317; Muta. 2 - H341; Carc. 2 - H351; Aquatic Acute 1 - H400		

4. FIRST-AID MEASURES

Description of first aid measures

ID-11 Developer (Part A)

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation continues.

Eye Contact

Remove victim immediately from source of exposure. 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. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin Contact

May cause skin sensitisation.

Eye Contact

Irritation of eyes and mucous membranes.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No specific first aid measures noted.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Use fire-extinguishing media appropriate for surrounding materials.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific Hazards

Fire or high temperatures create: Irritating gases/vapors/fumes of: Sulfurous gases (SO_x).

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation.

Environmental Precautions

Do not discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

Spill Clean Up Methods

For waste disposal, see section 13. Small quantities may be flushed to drains with plenty of water. Prevent discharge of larger quantity to drain. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Wash contaminated area with water. Do not let washing down water contaminate ponds or waterways.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Provide good ventilation. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations.

Storage

Store in closed original container in a dry place. Store under well-ventilated conditions at a temperature below 25°C.

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Storage Class

Chemical storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
HYDROQUINONE	ACGIH		1 mg/m3			A3, Sen
HYDROQUINONE	PEL		2 mg/m3			
COMPONENT						IDLH
HYDROQUINONE						50 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans.

SEN: Sensitizer.

Protective Equipment



Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

Wear suitable respiratory protection.

Hand Protection

Use protective gloves.

Eye Protection

Use eye protection.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystals. Powder, dust
Color	White / off-white. Cream.
Odor	No characteristic odor.
Solubility	Soluble in water. 100%
pH-Value, Conc. Solution	4

10. STABILITY AND REACTIVITY

Reactivity

No specific reactivity hazards associated with this product.

Stability

Stable under the prescribed storage conditions. No particular stability concerns.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

Avoid excessive heat for prolonged periods of time.

Materials To Avoid

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

Hazardous Decomposition Products

Fire or high temperatures create: Vapors/gases/fumes of: Oxides of: Sulfur. Carbon. Nitrogen.

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.

Toxicological Information on Ingredients:

HYDROQUINONE (CAS: 123-31-9)

Toxic Dose 1 - LD 50

320 mg/kg (oral rat)

Toxic Dose 2 - LD 50

>900 mg/kg (skn-rat)

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE (CAS: 55-55-0)

Toxic Dose 1 - LD 50

237 mg/kg (oral rat)

Toxic Dose 2 - LD 50

>1000 mg/kg (skn-rat)

12. ECOLOGICAL INFORMATION

Toxicity

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

Degradability

There are no data on the degradability of this product.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

The product is soluble in water.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

None known.

Ecological Information on Ingredients:

HYDROQUINONE (CAS: 123-31-9)

LC 50, 96 Hrs, Fish mg/l

0.10-0.18 (Fathead Minnow)

EC 50, 48 Hrs, Daphnia, mg/l

0.05

IC 50, 72 Hrs, Algae, mg/l

1.0

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE (CAS: 55-55-0)

LC 50, 96 Hrs, Fish mg/l

0.25

EC 50, 48 Hrs, Daphnia, mg/l

0.02

IC 50, 72 Hrs, Algae, mg/l

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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 be handled by a licensed hazardous waste contractor.

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14. TRANSPORT INFORMATION

General	Limited Quantity Exemption. No labeling or placarding required for land and air transport within the USA under 49CFR 171.4 or for land transport within Canada under SOR/2008-34.
UN No. (DOT/TDG)	3077
UN No. (IMDG)	3077
UN No. (ICAO)	3077
DOT Proper Shipping Name	UN3077, Environmentally hazardous substance, solid, n.o.s. (contains hydroquinone and bis-(4-hydroxy-N-methylanilinium) sulphate)
TDG Proper Shipping Name	UN3077, Environmentally hazardous substance, solid, n.o.s. (contains hydroquinone and bis-(4-hydroxy-N-methylanilinium) sulphate)
IMDG Class	9
ICAO Class	9
Transport Labels	



IMDG Pack Group	III
Air Pack Group	III

Environmentally Hazardous Substance/Marine Pollutant



EMS F-A, S-F

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes
Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)

TSCA: The ingredients of this product are on the TSCA Inventory.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

The following ingredients are listed.

HYDROQUINONE; EPCRA 302 TPQ 10 000 lbs 500 lbs Tier II TPQ 500 lbs

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed.

HYDROQUINONE; 100 lbs (45.4 Kg)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

The following ingredients are listed.

HYDROQUINONE 62.5%

CAA Accidental Release Prevention

None of the ingredients are listed.

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OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

State Regulations Comments

No information available.

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed.

HYDROQUINONE

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

Rhode Island "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

Minnesota "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

New Jersey "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

Pennsylvania "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

International Inventories

Canada – DSL/NDL

The following ingredients are listed.

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE

HYDROQUINONE

US - TSCA

The following ingredients are listed.

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE

HYDROQUINONE

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

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.

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