

# ILFORD PHOTO

## HARMAN technology Ltd

### SAFETY DATA SHEET

#### ID-11 Developer (Part A)

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR)

#### 1. Identification

##### Product identifier

Product name	ID-11 Developer (Part A)
Product number	1960457, 1960475
Internal identification	10009
Container size	8g; 40g

##### Recommended use of the chemical and restrictions on use

Restriction on use	Photographic Developer
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##### Details of the supplier of the safety data sheet

Supplier	Distributor Amplis Foto Inc, 22 Telson Road, Markham, Ontario L3R 1E5 Tel: 905 477 4111 Fax: 905 477 2502
Contact person	Contact Distributor: christine@amplis.com, <a href="http://www.amplis.com">http://www.amplis.com</a>

##### Emergency telephone number

Emergency telephone	Canada/USA: For medical emergency, call 1 800 842 9660 (Product Misuse).
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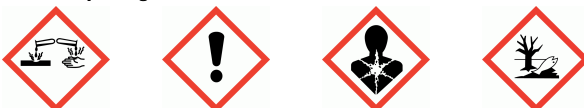
#### 2. Hazard identification

##### Classification of the substance or mixture

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351 STOT RE 2 - H373
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

##### Label elements

##### Hazard pictograms



Signal word

Danger

## ID-11 Developer (Part A)

### 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

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust.  
 P261 Avoid breathing dust.  
 P264 Wash contaminated skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.  
 P310 Immediately call a POISON CENTER/ doctor.  
 P314 Get medical advice/ attention if you feel unwell.  
 P321 Specific treatment (see medical advice on this label).  
 P330 Rinse mouth.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.  
 P405 Store locked up.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Contains

HYDROQUINONE, bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE

### Other hazards

No information available.

## 3. Composition/information on ingredients

### Mixtures

<b>HYDROQUINONE</b>	<b>60-100%</b>
CAS number: 123-31-9	
M factor (acute) = 10	
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Muta. 2 - H341	
Carc. 2 - H351	
Aquatic Acute 1 - H400	

## ID-11 Developer (Part A)

<b>bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE</b>	<b>10-30%</b>
CAS number: 55-55-0	
M factor (acute) = 1	M factor (chronic) = 1
<b>Classification</b> Acute Tox. 3 - H301 Skin Sens. 1 - H317 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	May cause sensitization by skin contact.
<b>Eye contact</b>	Irritation of eyes and mucous membranes. May cause serious eye damage.

#### Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations.
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### 5. Fire-fighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Use fire-extinguishing media suitable for the surrounding fire.
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#### Specific hazards arising from the hazardous product

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of the following substances: Carbon. Sulfur. Nitrogen.

#### Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours.
<b>Special protective equipment for firefighters</b>	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

## ID-11 Developer (Part A)

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin and eyes. Avoid inhalation of dust. Provide adequate ventilation.

### Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing, gloves, eye and face protection. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

### Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Do not breathe dust. Provide adequate ventilation. Avoid spilling. Read and follow manufacturer's recommendations.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container. Storage advice to ensure the product remains in a useable condition throughout its specified shelf life: Store at temperatures not exceeding 30°C.

**Storage class** Chemical storage.

### Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

## 8. Exposure controls/Personal protection

### Control parameters

### Occupational exposure limits

#### HYDROQUINONE

Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m<sup>3</sup>

A3, DSens

ACGIH = American Conference of Governmental Industrial Hygienists.  
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.  
DSens = Dermal sensitizer.

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

#### Hand protection

Use protective gloves.

## ID-11 Developer (Part A)

**Other skin and body protection**                      Wear appropriate clothing to prevent skin contamination.

**Respiratory protection**                      If ventilation is inadequate, suitable respiratory protection must be worn.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance**                                      Crystals. Dusty powder.

**Colour**    White/off-white. Cream.

**Odour**    No characteristic odour.

**pH**    pH (concentrated solution): 4

**Solubility(ies)**                                   Soluble in water. 100%

**Other information**                                Not available.

### 10. Stability and reactivity

**Reactivity**                                        The reactivity data for this product will be typical of those for the following class of materials: Reducing agents.

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

**Possibility of hazardous reactions**                      Under normal conditions of storage and use, no hazardous reactions will occur.

**Conditions to avoid**                              Avoid excessive heat for prolonged periods of time.

**Materials to avoid**                                Strong acids. Avoid contact with other photographic solutions and/or cleaning compounds.

**Hazardous decomposition products**                      Thermal decomposition or combustion products may include the following substances: Oxides of the following substances: Carbon. Nitrogen. Sulfur.

### 11. Toxicological information

#### Information on toxicological effects

**Toxicological effects**                              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.

**Acute toxicity - oral**

**ATE oral (mg/kg)**                                342.86

**Germ cell mutagenicity**

**Genotoxicity - in vitro**                              The product contains a substance that is classified as: Suspected of causing genetic defects.

**Carcinogenicity**

**Carcinogenicity**                                      The product contains a substance that is classified as: Suspected of causing cancer.

**Inhalation**     Dust may irritate the respiratory system.

**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.

## ID-11 Developer (Part A)

<b>Eye contact</b>	Irritation of eyes and mucous membranes. Repeated exposure may cause chronic eye irritation. May cause serious eye damage.
<b>Acute and chronic health hazards</b>	Prolonged or repeated exposure may cause severe irritation. May cause skin irritation/eczema. May cause sensitization by skin contact. Dust may irritate the respiratory system. May cause allergy. May cause hypersensitivity. May cause damage to organs through prolonged or repeated exposure.
<b>Route of exposure</b>	Inhalation Ingestion. Skin and/or eye contact
<b>Medical considerations</b>	May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

### Toxicological information on ingredients

#### HYDROQUINONE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 375.0

Species Rat

ATE oral (mg/kg) 375.0

##### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

#### bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 200.0

Species Rat

ATE oral (mg/kg) 200.0

### 12. Ecological information

<b>Toxicity</b>	The product contains a substance which is very toxic to aquatic organisms. The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
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### Ecological information on ingredients

#### HYDROQUINONE

##### Acute aquatic toxicity

LC<sub>50</sub>/EC<sub>50</sub> 0.01 < L(E)C50 ≤ 0.1

M factor (acute) 10

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.10-0.18 (Fathead Minnow) mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 0.05 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC<sub>50</sub>, 72 hours: 1.0 mg/l, Algae

#### bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE

## ID-11 Developer (Part A)

### Acute aquatic toxicity

<b>LC<sub>50</sub>/EC<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (acute)</b>	1
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 0.25 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.02 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: 10 mg/l, Algae

### Chronic aquatic toxicity

<b>M factor (chronic)</b>	1
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### Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### Mobility in soil

**Mobility** The product is soluble in water.

### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

**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.

## 14. Transport information

**General** A marine pollutant exception applies to this product, so that no labeling or placarding is required for transportation by land in Canada under SOR / 2008-34. Other marine pollutant exceptions also apply, so it is not required to be labeled or transported as hazardous goods in the United States or abroad. See 49CFR 171.4 (c), IATA SP A197 and IMDG 2.10.2.7.

### UN number

<b>UN No. (TDG)</b>	3077
<b>UN No. (IMDG)</b>	3077
<b>UN No. (ICAO)</b>	3077
<b>UN No. (DOT)</b>	UN3077

### UN proper shipping name

**Proper shipping name (TDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS HYDROQUINONE, bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE)

## ID-11 Developer (Part A)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS HYDROQUINONE, bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS HYDROQUINONE, bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE)

**Proper shipping name (DOT)** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CONTAINS HYDROQUINONE, bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE)

### Transport hazard class(es)

DOT class 9

DOT hazard label 9

TDG class 9

TDG label(s) 9

IMDG class 9

ICAO class/division 9

### Transport labels



### DOT transport label



### Packing group

TDG packing group III

IMDG packing group III

ICAO packing group III

DOT packing group III

### Environmental hazards

Environmentally hazardous substance/marine pollutant



### Special precautions for user

EmS F-A, S-F

DOT reportable quantity RQ: Hydroquinone (160 lbs)

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

## 15. Regulatory information

### Inventories



## ID-11 Developer (Part A)

### Canada – DSL/NDSL

*HYDROQUINONE*

*bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE*

*Sodium Sulfate*

### 16. Other information

<b>General information</b>	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.
<b>Key literature references and sources for data</b>	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.
<b>Issued by</b>	Mr James Cooper, HARMAN Technology Ltd, Mobberley, Knutsford, Cheshire, WA16 7GB, ENGLAND, United Kingdom, Tel.: +44(0)1565 650000 email: james.cooper@harmantechnology.com
<b>Revision date</b>	2022-09-16
<b>Revision</b>	4
<b>Supersedes date</b>	2021-01-12
<b>Hazard statements in full</b>	H301 Toxic if swallowed. 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. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.