

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET

Perceptol 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	Perceptol Developer (Part A)
Product number	1960529
Internal identification	10024
Container size	8g

Recommended use of the chemical and restrictions on use

Restriction on use	Photographic Developer
--------------------	------------------------

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, http://www.amplis.com

Emergency telephone number

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

2. Hazard identification

Classification of the substance or mixture

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Skin Sens. 1 - H317 STOT RE 2 - H373
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Label elements

Hazard pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Perceptol Developer (Part A)

Precautionary statements	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective clothing, gloves, eye and face protection.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p>
---------------------------------	---

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

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE	50-65%
CAS number: 55-55-0	
M factor (acute) = 1	M factor (chronic) = 1
Classification 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

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. 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. Get medical attention if irritation persists after washing.
Eye contact	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

Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	May cause sensitization by skin contact.
Eye contact	Irritation of eyes and mucous membranes.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Perceptol Developer (Part A)

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

Specific hazards arising from the hazardous product

Specific hazards No unusual fire or explosion hazards noted.

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

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

Special protective equipment for firefighters 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, 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

Ingredient comments No exposure limits known for ingredient(s).

Exposure controls

Perceptol Developer (Part A)

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.

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	Dusty powder.
Colour	Cream. Brown.
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) 320.0

Perceptol Developer (Part A)

Inhalation	Dust may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed. Harmful: danger of serious damage to health by prolonged exposure 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.
Acute and chronic health hazards	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.
Route of exposure	Inhalation Ingestion Skin and/or eye contact
Medical considerations	May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

Toxicological information on ingredients

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 200.0

Species Rat

ATE oral (mg/kg) 200.0

12. Ecological information

Toxicity The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE

Acute aquatic toxicity

LC₅₀/EC₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 0.25 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.02 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 10 mg/l, Algae

Chronic aquatic toxicity

M factor (chronic) 1

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.

Perceptol Developer (Part A)

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

UN No. (TDG) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

UN No. (DOT) UN3077

UN proper shipping name

Proper shipping name (TDG) UN3077, Environmentally hazardous substance, solid, n.o.s. (contains bis-(4-hydroxy-N-methylanilinium) sulphate)

Proper shipping name (IMDG) UN3077, Environmentally hazardous substance, solid, n.o.s. (contains bis-(4-hydroxy-N-methylanilinium) sulphate)

Proper shipping name (ICAO) UN3077, Environmentally hazardous substance, solid, n.o.s. (contains bis-(4-hydroxy-N-methylanilinium) sulphate)

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

Transport hazard class(es)

DOT class 9

DOT hazard label 9

TDG class 9(M7)

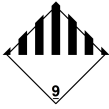
TDG label(s) 9

IMDG class 9

ICAO class/division 9

Perceptol Developer (Part A)

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

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

15. Regulatory information

Inventories

Canada – DSL/NDSL

bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE

Sodium Chloride

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.

Key literature references and sources for data

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

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

Perceptol Developer (Part A)

Revision date	2017-05-31
Revision	2
Supersedes date	14/05/2015
Hazard statements in full	H301 Toxic if swallowed. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. 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.