

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET

Perceptol Developer (Part A)

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

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

Application Photographic Developer

Details of the supplier of the safety data sheet

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 number

Emergency telephone

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

2. Hazard(s) 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

Pictogram



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	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+P312 If swallowed: Call a poison center/ doctor if you feel unwell.
	P302+P352 If on skin: Wash with plenty of water.
	P405 Store locked up.
	P501 Dispose of contents/ container in accordance with local regulations.

Contains	bis(4-HYDROXY-N-METHYLANILINIUM) SULPHATE
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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 sensitisation by skin contact.
Eye contact	Irritation of eyes and mucous membranes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.
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5. Fire-fighting measures

Extinguishing media

Perceptol Developer (Part A)

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

Special hazards arising from the substance or mixture

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 vapors.

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 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 uses(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

Protective equipment



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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.
Color	Cream. Brown.
Odor	No characteristic odor.
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
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.

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Skin Contact	Powder may irritate skin. May cause sensitisation 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 sensitisation by skin contact. Dust may irritate the respiratory system. 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.

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

Acute aquatic toxicity

LE(C)₅₀ 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.
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Bioaccumulative potential

Bio-Accumulative Potential	No data available on bioaccumulation.
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Mobility in soil

Mobility	The product is soluble in water.
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Other adverse effects

Other adverse effects	None known.
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Perceptol Developer (Part A)

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

Exceptions relating to marine pollutants in small packages apply to this product, so that it is not required to be labelled or transported in accordance with dangerous goods regulations. 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 hazard class	9
DOT hazard label	9
TDG class	9(M7)
TDG label(s)	9
IMDG Class	9
ICAO class/division	9

Transport labels



DOT transport labels



Perceptol Developer (Part A)

Packing group

TDG Packing Group	III
IMDG packing group	III
ICAO packing group	III
DOT packing group	III

Environmental hazards

Environmentally Hazardous Substance



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

US State Regulations

State Regulations Comments No information available.

Inventories

US - TSCA

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	SHE.Team@harmantechnology.com
Revision date	5/31/2017
Revision	2
Supersedes date	14/05/2015

Perceptol Developer (Part A)

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.