

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET HARMAN Toner Selenium

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 HARMAN Toner Selenium
Product number 1143207
Internal identification 10477
Container size 1 Litre

Recommended use of the chemical and restrictions on use

Restriction on use Toning solution for monochrome prints

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
Environmental hazards Not Classified

Label elements

Hazard pictograms



Signal word Warning

Hazard statements H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.

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Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 P280 Wear protective clothing, gloves, eye and face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P330 Rinse mouth.
 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 SODIUM SELENITE

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

Ammonium Thiosulphate	10-30%
CAS number: 7783-18-8	

Classification
Not Classified

Sodium Sulfit	10-30%
CAS number: 7757-83-7	

Classification
Not Classified

SODIUM SELENITE	1-5%
CAS number: 10102-18-8	

Classification
Acute Tox. 2 - H300
Acute Tox. 3 - H331
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

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.
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Ingestion	No specific symptoms known.
Skin contact	May cause sensitisation by skin contact.
Eye contact	May cause severe eye irritation.

Indication of any immediate medical attention and special treatment needed

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

Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

Specific hazards arising from the hazardous product

Specific hazards The product is non-combustible. Toxic gases or vapours. No unusual fire or explosion hazards noted.

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

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. Provide adequate ventilation. For personal protection, see Section 8.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.

Methods and material for containment and cleaning up

Methods for cleaning up For waste disposal, see Section 13. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Flush away spillage with plenty of water. Absorb in vermiculite, dry sand or earth and place into containers. 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 Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. 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 above 0°C. Store at temperatures not exceeding 30°C.

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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

Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. This product must not be handled in a confined space without adequate 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 suitable protective clothing as protection against splashing or 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	Clear liquid.
Colour	Colourless.
Odour	Ammonia.
pH	pH (diluted solution): 8.6-8.8 (1+4)
Initial boiling point and range	>100°C @ 760 mm Hg
Relative density	1.29 @ 20°C
Solubility(ies)	100% Soluble in water.
Other information	Not available.

10. Stability and reactivity

Reactivity	Generates toxic gas in contact with acid.
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	There are no known conditions that are likely to result in a hazardous situation.
Materials to avoid	Strong acids. Strong alkalis. Avoid contact with other photographic solutions and/or cleaning compounds.

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

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) 454.99

Acute toxicity - inhalation

ATE inhalation (gases ppmV) 45,498.86

ATE inhalation (vapours mg/l) 195.0

ATE inhalation (dusts/mists mg/l) 32.5

Inhalation May cause respiratory system irritation.

Ingestion Harmful if swallowed.

Skin contact Harmful in contact with skin. May cause skin irritation/eczema. May cause sensitization by skin contact.

Eye contact Ammonia. Irritating to eyes. May cause severe eye irritation.

Toxicological information on ingredients

SODIUM SELENITE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 7.0

Species Rat

ATE oral (mg/kg) 7.0

Acute toxicity - inhalation

ATE inhalation (gases ppmV) 700.0

ATE inhalation (vapours mg/l) 3.0

ATE inhalation (dusts/mists mg/l) 0.5

12. Ecological information

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

Ecological information on ingredients

Sodium Sulfit

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Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 220 - 460 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 69 mg/l, Daphnia magna

SODIUM SELENITE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: <10 mg/l, Fish

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 7.9 mg/l, Daphnia magna

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 Not available.

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 The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, TDG).

UN number

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

Transport labels

No transport warning sign required.

DOT transport label

Packing group

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Packing group (International) Not applicable.

Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

Special precautions for user

Not applicable.

DOT TIH Zone Not applicable.

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

15. Regulatory information

Inventories

Canada – DSL/NDSL

Water

Ammonium Thiosulphate

Sodium Sulfite

SODIUM SELENITE

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.
Issued by	HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email: trevor.rhodes@harmantechnology.com
Revision date	2017-05-30
Revision	2
Supersedes date	14/05/2015
Hazard statements in full	H300 Fatal if swallowed. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H331 Toxic if inhaled. H411 Toxic to aquatic life with long lasting effects.