

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET

HARMAN Toner Selenium

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name HARMAN Toner Selenium
Product No. 1143207
Internal Id 10477
Container size 1 Litre

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Toning solution for monochrome prints

1.3. Details of the supplier of the safety data sheet

Supplier Distributors
UK: HARMAN technology Ltd, Ilford Way,
Mobberley, Cheshire, WA16 7JL, UK Tel: 01565
650000, Fax: 01565 872734.
(<http://www.harmantechnology.com>)
Australia: CR Kennedy & Co Pty Ltd, 663 Chapel
Street, South Yarra, Victoria 3141, Australia. Tel:
03 9823 1555, Fax: 03 9827 7216
Contact Person UK: HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email:
trevor.rhodes@harmantechnology.com Australia: Contact Distributor (<http://www.crkenedy.com.au>) Tel
+61 (0)3 9823 1555

1.4. Emergency telephone number

Swiss Toxicological Information Centre (24 hours) Tel: +41 (0)1 251 5151, Fax: +41 (0)1 252 8833 E-mail: stic@access.ch, Internet:
www.toxi.ch

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) T;R23, R25, R43, R31.

2.2. Label elements

Contains SODIUM SELENITE

Labelling



Toxic

Risk Phrases

R23	Toxic by inhalation.
R25	Toxic if swallowed.
R31	Contact with acids liberates toxic gas.
R43	May cause sensitisation by skin contact.

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Safety Phrases

S1/2	Keep locked up and out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S24	Avoid contact with skin.
S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S37/39	Wear suitable gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.

2.3. Other hazards

No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

SODIUM SELENITE		1-5%
CAS-No.: 10102-18-8	EC No.: 233-267-9	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
EUH031	T+;R28	
Acute Tox. 2 - H300	T;R23	
Acute Tox. 3 - H331	R43	
Skin Sens. 1 - H317	R31	
Aquatic Chronic 2 - H411	N;R51/53	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

Hazardous according to the criteria of Worksafe Australia

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

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.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin contact

May cause sensitisation by skin contact.

Eye contact

May cause severe irritation to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

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No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

The product is non-combustible. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

The product is non-combustible. If heated, harmful vapours may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours.

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see section 8.

6.2. 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.

6.3. Methods and material for containment and cleaning up

For waste disposal, see section 13. Wear necessary protective equipment. Small quantities may be flushed to drains with plenty of water. Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water. Prevent discharge of larger quantity to drain.

6.4. Reference to other sections

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

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe 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.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage Class

Chemical storage.

7.3. Specific end use(s)

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
SODIUM SELENITE	WEL		0.1 mg/m3			

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation. Must not be handled in confined space without sufficient ventilation.

Respiratory equipment

Respiratory protection not required.

Hand protection

Use protective gloves.

Eye protection

Use eye protection.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
Odour	Ammonia.
Solubility	100% Soluble in water.
Initial boiling point and boiling range (°C)	>100 760 mm Hg
Relative density	1.29 20
pH-Value, Conc. Solution	8.8

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Generates toxic gas in contact with acid.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid contact with acids and alkalis. Avoid mixing with: Strong alkalis. Generates toxic gas in contact with acid.

10.5. Incompatible materials

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Materials To Avoid

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

10.6. Hazardous decomposition products

When heated, toxic and corrosive vapours/gases may be formed. Ammonia. Sulphurous gases (SO_x). Selenium

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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.

Inhalation

May cause irritation to the respiratory system.

Ingestion

Toxic if swallowed.

Skin contact

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

Eye contact

Ammonia. Irritating to eyes. May cause severe irritation to eyes.

Toxicological information on ingredients.

SODIUM SELENITE (CAS: 10102-18-8)

Toxic Dose 1 - LD 50

7 mg/kg (oral rat)

Ammonium Thiosulphate (CAS: 7783-18-8)

Toxic Dose 1 - LD 50

2890 mg/kg (oral rat)

Sodium Sulphite (CAS: 7757-83-7)

Toxic Dose 1 - LD 50

2610 mg/kg (oral rat)

SECTION 12: ECOLOGICAL INFORMATION

12.1. 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 SELENITE (CAS: 10102-18-8)

LC 50, 96 Hrs, Fish mg/l

<10

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

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Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

The disposal process for this product when it becomes waste, depends largely upon how much (volume) waste is generated, where the waste is generated (location) and by whom (whether in a professional or amateur or other capacity). Therefore only outline guidance can be provided. For detailed guidance and specialist advice on the disposal of this product when it becomes waste, please visit the COPPICE web site at <http://www.pic.uk.net/coppice/index.htm>. The information is relevant to both professional and amateur users.

13.1. Waste treatment 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.

Waste Class

EU Waste Number: 090101

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

Transport Labels

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Worksafe Australia NOHSC 2012: Labelling of workplace substances. Australian Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). Australian Approved Criteria for Classifying Hazardous Substances (NOHSC 1008). Australian List of Designated Hazardous Substances (NOHSC 10005). Australian National Code of Practice for the Preparation of Material safety Data Sheets (NOHSC 2011)

Guidance Notes

CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. EU COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010.

National Regulations

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments. Workplace Exposure Limits 2007 (EH40) The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 No 716

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 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

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

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Risk Phrases In Full

R31	Contact with acids liberates toxic gas.
R43	May cause sensitisation by skin contact.
R23	Toxic by inhalation.
R25	Toxic if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R28	Very toxic if swallowed.

Hazard Statements In Full

EUH031	Contact with acids liberates toxic gas.
H300	Fatal if swallowed.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H301	Toxic if swallowed.
H411	Toxic to aquatic life with long lasting effects.