

SAFETY DATA SHEET

HARMAN Selenium Toner 1+3

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

1.1. Product identifier

Product name HARMAN Selenium Toner 1+3
Internal Id 10330

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

Contact Person This SDS relates to the product after it has been prepared for use in accordance with our recommendations. Because HARMAN technology Ltd. does not supply the solution ready for use, we are not obliged to provide this SDS. However, we do so in order to help users to use the product safely and assess correctly the risks involved.
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1.4. Emergency telephone number

See msds of appropriate concentrate for details.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	EUH031;Acute Tox. 4 - H302
Environment	Not classified.

Classification (1999/45/EEC) Xn;R22. R31.

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

2.2. Label elements

Contains SODIUM SELENITE

Label In Accordance With (EC) No. 1272/2008



Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

Precautionary Statements

P102 Keep out of reach of children.
P270 Do not eat, drink or smoke when using this product.
P264 Wash contaminated skin thoroughly after handling.
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.

Supplemental label information

EUH031 Contact with acids liberates toxic gas.

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EUH208

Contains SODIUM SELENITE. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

SODIUM SELENITE		< 0.5 %
CAS-No.: 10102-18-8	EC No.: 233-267-9	
Classification (EC 1272/2008) EUH031 Acute Tox. 2 - H300 Acute Tox. 3 - H331 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC) T+;R28 T;R23 R43 R31 N;R51/53	

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

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

Irritation of eyes and mucous membranes.

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

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

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.

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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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation.

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. Small quantities may be flushed to drains with plenty of water. Prevent discharge of larger quantity to drain. Wash contaminated area with water.

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 under well-ventilated conditions at a temperature below 25°C.

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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
SODIUM SELENITE	WEL		0,1 mg/m ³			as Se

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.

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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	Slightly pungent odour.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	100
pH-Value, Diluted Solution	8.7

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid contact with acids.

10.5. Incompatible materials

Materials To Avoid

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

10.6. Hazardous decomposition products

Fire or high temperatures create: Sulphurous gases (SO_x).

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

Harmful if swallowed. May cause discomfort if swallowed.

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Skin contact

May cause sensitisation by skin contact.

Eye contact

Irritation of eyes and mucous membranes.

Health Warnings

Spray and vapour in the eyes may cause irritation and smarting. May cause allergy. May cause hypersensitivity.

Route of entry

Skin and/or eye contact. Ingestion.

Toxicological information on ingredients.

SODIUM SELENITE (CAS: 10102-18-8)

Toxic Dose 1 - LD 50

7 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

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

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

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.

SECTION 14: TRANSPORT INFORMATION

Road Transport Notes

Not classified for road transport

Rail Transport Notes

Not classified for rail transport

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Sea Transport Notes Not classified for sea transport

Air Transport Notes Not classified for air transport

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

ADR/RID/ADN Class Not classified for transportation.

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

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

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

National Regulations

Workplace Exposure Limits 2007 (EH40)

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Information Sources

Material Safety Data Sheet, Misc. manufacturers.

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Risk Phrases In Full

R31	Contact with acids liberates toxic gas.
R22	Harmful if swallowed.
R43	May cause sensitisation by skin contact.
R23	Toxic by inhalation.
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.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H411	Toxic to aquatic life with long lasting effects.