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# HARMAN technology Ltd

# SAFETY DATA SHEET

### HARMAN Toner Selenium

According to Regulation (EC) No 1907/2006, Annex II, as amended.

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	HARMAN Toner Selenium
Product number	1143207
Internal identification	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 Manager: Dr Lindsey Campbell Tel: +44(0)1565 650000, E-mail: lindsey.campbell@harmantechnology.com Australia: Contact Distributor (http://www.crkennedy.com.au) Tel +61 (0)3 9823 1555
1.4. Emergency telephone nu	Imber
Emergency telephone	Australia: 1-800-557346 UK and elsewhere: +44(0) 207 858 1228
SECTION 2: Hazards identified	cation
2.1. Classification of the subs	tance or mixture
Classification (EC 1272/2008	$\underline{\mathbf{b}}$
Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Skin Sens. 1 - H317
Environmental hazards	Not Classified
2.2. Label elements	
Hazard pictograms	
Signal word	Warning
Hazard statements	H302 Harmful if swallowed. H317 May cause an allergic skin reaction.

Precautionary statements	P101 If medical advice is needed, have prod P280 Wear protective clothing, gloves, eye a	
	P301+P310 IF SWALLOWED: Immediately of	
	P330 Rinse mouth.	
	P302+P352 IF ON SKIN: Wash with plenty o P405 Store locked up.	of water.
	P501 Dispose of contents/ container in accor	rdance with local regulations.
Contains	SODIUM SELENITE	
2.3. Other hazards		
No information available.		
SECTION 3: Composition/info	ormation on ingredients	
3.2. Mixtures		
Ammonium Thiosulphate		10-30%
CAS number: 7783-18-8	EC number: 231-982-0	REACH registration number: 01-
		2119537325-41-XXXX
Classification		
Not Classified		
		10.002
Sodium Sulphite		10-30%
CAS number: 7757-83-7	EC number: 231-821-4	REACH registration number: 01- 2119537420-49-XXXX
Classification		
Not Classified		
SODIUM SELENITE		1-5%
CAS number: 10102-18-8	EC number: 233-267-9	
Acute Tox. 2 - H300		
Acute Tox. 3 - H331 Skin Sens. 1 - H317		
Aquatic Chronic 2 - H411		
	e and Hazard Statements are Displayed in Sec	tion 16
	s and Hazard Statements are Displayed in Sec	
SECTION 4: First aid measure	es	

### 4.1. 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.

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

	and checks, both addic and delayed
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	May cause sensitisation by skin contact.
Eye contact	May cause severe eye irritation.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	No specific recommendations.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.
5.2. Special hazards arising from	om the substance or mixture
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. Sulphur. Sodium. Selenium
5.3. 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.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see Section 8.
6.2. Environmental precaution	<u>s</u>
Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.
6.3. 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.
6.4. Reference to other section	
Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
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.

### 7.2. 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. Storage class Chemical storage. 7.3. Specific end use(s) 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 Occupational exposure limits SODIUM SELENITE Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL as Se WEL = Workplace Exposure Limit. Ammonium Thiosulphate (CAS: 7783-18-8) DNEL General population - Inhalation; Long term systemic effects: 104 mg/m<sup>3</sup> PNEC - Fresh water; 0.78 mg/l - marine water; 0.08 mg/l Sodium Sulphite (CAS: 7757-83-7) PNEC - Fresh water; 1.33 mg/l - marine water; 0.13 mg/l 8.2. Exposure controls Protective equipment Appropriate engineering Provide adequate ventilation. This product must not be handled in a confined space without controls 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 Wear suitable protective clothing as protection against splashing or contamination. protection Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.

Odour	Ammonia.
рН	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.
9.2. Other information	
Other information	Not available.
SECTION 10: Stability and rea	ictivity
10.1. Reactivity	
Reactivity	Generates toxic gas in contact with acid.
10.2. Chemical stability	
Stability	Stable under the prescribed storage conditions. No particular stability concerns.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
10.4. Conditions to avoid	
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
10.5. Incompatible materials	
Materials to avoid	Strong acids. Strong alkalis. Avoid contact with other photographic solutions and/or cleaning compounds.
Materials to avoid <u>10.6. Hazardous decompositio</u>	compounds.
	compounds.
10.6. Hazardous decomposition	compounds. <u>In products</u> Thermal decomposition or combustion products may include the following substances: Ammonia. Selenium Oxides of the following substances: Nitrogen. Sulphur. Sodium. Selenium
10.6. Hazardous decomposition Hazardous decomposition products SECTION 11: Toxicological int	compounds. <u>In products</u> Thermal decomposition or combustion products may include the following substances: Ammonia. Selenium Oxides of the following substances: Nitrogen. Sulphur. Sodium. Selenium formation
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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 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 ppm)	700.0
ATE inhalation (vapours mg/l)	3.0
ATE inhalation (dusts/mists mg/l)	0.5

**SECTION 12: Ecological information** 

#### 12.1. Toxicity

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 Sulphite

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 aquatic toxicity

Acute toxicity - fish	LC₅₀, 96 hours: <10 mg/l, Fish
Acute toxicity - aquatic	LC₅₀, 48 hours: 7.9 mg/l, Daphnia magna
invertebrates	

#### 12.2. Persistence and degradability

Persistence and 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 vPv	Bassessment	
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.	
12.6. Other adverse effects		
Other adverse effects	Not available.	
SECTION 13: Disposal consid	lerations	
13.1. Waste treatment method	ds	
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 handled by a licensed hazardous waste contractor.	
Waste class	090199	
SECTION 14: Transport inform	nation	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
14.1. UN number		
Not applicable.		
14.2. UN proper shipping nam		
Not applicable.		
14.3. Transport hazard class(	es)	
No transport warning sign req	uired.	
<b>Transport labels</b> 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 u	JSer	
Not applicable.		
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code		
Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code		
SECTION 15: Regulatory information		
15.1. Safety, health and environ	onmental regulations/legislation specific for the substance or mixture	

EU legislation	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18</li> <li>December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of</li> <li>Chemicals (REACH) (as amended).</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16</li> <li>December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</li> <li>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.</li> </ul>
Guidance	Workplace Exposure Limits EH40. 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)

#### 15.2. Chemical safety assessment

See the appended document: Safe Use of Mixtures Information (SUMI)

#### 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.
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	Mr James Cooper, HARMAN Technology Ltd, Mobberley, Knutsford, Cheshire, WA16 7GB, ENGLAND, United Kingdom, Tel.: +44(0)1565 650000 email: james.cooper@harmantechnology.com
Revision date	20/09/2022
Revision	5
Supersedes date	12/01/2021
Hazard statements in full	<ul> <li>H300 Fatal if swallowed.</li> <li>H302 Harmful if swallowed.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H331 Toxic if inhaled.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>

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## Safe Use of Mixtures Information (SUMI)

## Photoprocessing Solutions from Liquid or Powder Concentrates: Manual Processing (Professional Use)

#### Disclaimer

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product Safety Data Sheet (SDS), the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS. The REACH registration numbers, where applicable, complete an extended product SDS.

Operational conditions			
Maximum duration	1 hour per day for diluting liquid concentrate	s or dissolving powders (when applicable).	
	1 hour per day for mixing and disposal activities.		
	6 hours per day for application (= processing).		
Frequency of exposure	Dissolving powders: 25 days per year.		
Diluting liquids and all other activities: 50 days per year.		vs per year.	
Physical state	As supplied: liquid concentrates or powder concentrates.		
	As used, after making up: aqueous working solution.		
Process conditions	Covers use at ambient temperatures. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Keep emissions below the occupational exposure limits of the ingredients specified in section 8 of the SDS.		
	Avoid direct contact.		
	Regular cleaning of equipment and work area.		
Risk management measures			
Conditions and measures	Wear safety glasses with side shields.		
related to	Wear appropriate chemical resistant gloves: see section 8 of the SDS.		
Personal Protection Equipment	Wear lab coat or overall.		
(PPE), hygiene and health	No respiratory protective equipment is required under normal conditions of use, provided		
evaluation	that adequate ventilation is in place.		
	Eye wash station and emergency showers are recommended.		
	Avoid breathing dust (when handling powders), mist/vapours.		
	Avoid contact with skin, eyes and clothing.		
	Training of worker in relation to proper use and maintenance of the PPE must be ensured.		
Good practice advice			
Use personal protective equipme	ent as required.		
Wash hands before breaks and a	fter work.		
Keep good hygiene and safety practice.			
Use only with adequate ventilation	on.		
Do not eat, drink or smoke when	using this product.		

Environmental measures

Do not allow this material to drain into sewers/water supplies.

Ensure collection and disposal with appropriately licenced waste contractor.

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

Use descriptors

PW-Widespread use by professional workers.

SU7-Printing and reproduction of recorded media.

PC30-Photochemicals.

PROC5-Mixing or blending in batch processes.

PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities.

PROC13-Treatment of articles by dipping and pouring.

ERC8a-Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor).

ERC8b-Widespread use of reactive processing aid (no inclusion into or onto article, indoor).

Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture as supplied is provided.

See section 3 of the SDS for information on the product's composition. Note that this information will be for the concentrate supplied, which is used to create the working strength (WS) solution.

Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.

The product may contain sensitizing ingredients that may cause allergic reaction to certain people.

Section 2 of the SDS states these ingredients where applicable.

# **ILFORD** PHOTO HARMAN technology Ltd

## Safe Use of Mixtures Information (SUMI)

# Photoprocessing Solutions from Liquid or Powder Concentrates: Manual Processing (Consumer Use)

#### Disclaimer

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product Safety Data Sheet (SDS), the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS. The REACH registration numbers, where applicable, complete an extended product SDS.

Operational conditions		
Maximum duration	15 minutes per day for dissolving powders (when applicable).	
	15 minutes per day for mixing and disposal activities.	
	4 hours per day for application (= processing).	
Frequency of exposure	Dissolving powders: 12 days per year.	
	Diluting liquids and all other activities: 25 days per year.	
Physical state	As supplied: liquid concentrate or powder concentrate.	
	used, after making up: aqueous working strength solution.	
Process conditions Covers use at ambient temperatures.		
	Provide a good standard of ventilation.	
	Avoid direct contact.	
	Regular cleaning of equipment and work area.	
Risk management measures		
Conditions and measures	Wear safety glasses with side shields.	
related to	Wear appropriate chemical resistant gloves: see section 8 of the SDS.	
Personal Protection Equipment	Wear lab coat or overall.	
(PPE), hygiene and health	Provide adequate ventilation.	
evaluation	Avoid breathing dust (when handling powders), mist/vapours. Avoid contact with skin, eyes and clothing.	
Good practice advice		
Use Personal Protective Equipme		
Wash hands before breaks and af	iter work.	
Use only with adequate ventilation.		
Do not eat, drink or smoke when	using this product.	
Environmental measures		
Do not allow this material to drain	n into sewers/water supplies.	
Dispose of waste material accord	ing to Local, State, Federal and Provincial Environmental Regulations.	

#### Use descriptors

C-Consumer use.

SU7-Printing and reproduction of recorded media.

PC30-Photochemicals.

PROC5-Mixing or blending in batch processes.

PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities.

PROC13-Treatment of articles by dipping and pouring.

ERC8a-Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor).

ERC8b-Widespread use of reactive processing aid (no inclusion into or onto article, indoor).

Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture as supplied is provided.

See section 3 of the SDS for information on the product's composition.

Note that this information will be for the concentrate supplied, which is used to create the working strength (WS) solution.

The product may contain sensitizing ingredients that may cause allergic reaction to certain people. Section 2 of the SDS states these ingredients where applicable.