

# ILFORD PHOTO

## HARMAN technology Ltd

### SAFETY DATA SHEET

#### Ifosol 3 Film Developer

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	Ifosol 3 Film Developer
Product number	1131778
Internal identification	10255
Container size	500ml

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

Identified uses	Photographic Developer Solution
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##### 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. ( <a href="http://www.harmantechnology.com">http://www.harmantechnology.com</a> ) 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: <a href="mailto:lindsey.campbell@harmantechnology.com">lindsey.campbell@harmantechnology.com</a> Australia: Contact Distributor ( <a href="http://www.crkennedy.com.au">http://www.crkennedy.com.au</a> ) Tel +61 (0)3 9823 1555

##### 1.4. Emergency telephone number

Emergency telephone	Australia: 1-800-557346 UK and elsewhere: +44(0) 207 858 1228
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

##### 2.2. Label elements

Hazard statements	EUH208 Contains HYDROQUINONE, 1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone. May produce an allergic reaction.
Precautionary statements	P102 Keep out of reach of children.
Supplemental label information	EUH210 Safety data sheet available on request.

##### 2.3. Other hazards

No information available.

## Ifosol 3 Film Developer

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>SODIUM CARBONATE</b>		<b>1-5%</b>
CAS number: 497-19-8	EC number: 207-838-8	REACH registration number: 01-2119485498-19-XXXX
<b>Classification</b> Eye Irrit. 2 - H319		
<b>HYDROQUINONE</b>		<b>&lt;1%</b>
CAS number: 123-31-9	EC number: 204-617-8	REACH registration number: 01-2119524016-51-XXXX
M factor (Acute) = 10		
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351 Aquatic Acute 1 - H400		
<b>1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone</b>		<b>&lt;1%</b>
CAS number: 13047-13-7	EC number: 235-920-3	
<b>Classification</b> Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411		

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

<b>Inhalation</b>	Unlikely route of exposure as the product does not contain volatile substances. Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Remove affected person from source of contamination. Rinse mouth thoroughly with water. Do not induce vomiting.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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

<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.

## Ifosol 3 Film Developer

**Skin contact** May cause skin irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.

**Eye contact** May cause temporary eye irritation.

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

**Notes for the doctor** No specific recommendations.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** The product is non-combustible. No unusual fire or explosion hazards noted.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of: Carbon. Sulphur. Nitrogen. Sodium.

### 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 measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see Section 8.

### 6.2. 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.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing, gloves, eye and face protection.  
Small Spillages: Flush away spillage with plenty of water.  
Large Spillages: 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 sections

**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

**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.

## Ifosol 3 Film Developer

### 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

#### HYDROQUINONE

Long-term exposure limit (8-hour TWA): WEL 0.5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

#### SODIUM CARBONATE (CAS: 497-19-8)

#### DNEL

Workers - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>  
Consumer - Inhalation; Short term local effects: 10 mg/m<sup>3</sup>

#### HYDROQUINONE (CAS: 123-31-9)

#### DNEL

Industry/Professional - Dermal; Long term systemic effects: 128 mg/kg/day  
Industry/Professional - Inhalation; Long term systemic effects: 7 mg/m<sup>3</sup>  
Industry/Professional - Inhalation; Long term local effects: 1 mg/m<sup>3</sup>  
General population - Dermal; Long term systemic effects: 64 mg/kg/day  
General population - Inhalation; Long term systemic effects: 1.74 mg/m<sup>3</sup>  
General population - Inhalation; Long term local effects: 0.5 mg/m<sup>3</sup>

#### PNEC

- Water; 0.000114 mg/l  
- marine water; 0.0000114 mg/l  
- Sediment (Freshwater); 0.00098 mg/kg  
- Sediment (Marinewater); 0.000097 mg/kg  
- Intermittent release; 0.00134 mg/l  
- Soil; 0.000129 mg/kg  
- STP; 0.71 mg/l

### 8.2. 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.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Coloured liquid.

## Ifosol 3 Film Developer

Colour	Light (or pale). Yellow. Orange. Brown.
Odour	No characteristic odour.
pH	pH (concentrated solution): 9.8
Initial boiling point and range	>100°C @ 760 mm Hg
Relative density	1.07 @ 20°C
Solubility(ies)	100% Soluble in water.

### 9.2. Other information

Other information	Not available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	See the other subsections of this section for further details.
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### 10.2. Chemical stability

Stability	Stable under the prescribed storage conditions. No particular stability concerns.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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### 10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid contact with acids.
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### 10.5. Incompatible materials

Materials to avoid	Strong acids. Avoid contact with other photographic solutions and/or cleaning compounds.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Oxides of: Carbon. Sulphur. Nitrogen. Sodium.
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## SECTION 11: Toxicological information

### 11.1. 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.
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### Germ cell mutagenicity

Genotoxicity - in vitro	The product contains a substance that is classified as: Suspected of causing genetic defects.
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### Carcinogenicity

Carcinogenicity	The product contains a substance that is classified as: Suspected of causing cancer.
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### Reproductive toxicity

Reproductive toxicity - development	The product contains a substance that is classified as: Suspected of damaging fertility or the unborn child.
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### Specific target organ toxicity - repeated exposure

STOT - repeated exposure	The product contains a substance that is classified as: May cause damage to organs through prolonged or repeated exposure if inhaled.
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Inhalation	May cause respiratory system irritation.
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## Ifosol 3 Film Developer

<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause sensitisation by skin contact. May cause allergic contact eczema.
<b>Eye contact</b>	Irritation of eyes and mucous membranes. Repeated exposure may cause chronic eye irritation.
<b>Acute and chronic health hazards</b>	Prolonged or repeated exposure may cause severe irritation. May cause skin irritation/eczema. May cause sensitisation by skin contact. Irritating to eyes. Vapour or spray in the eyes may cause irritation and smarting. May cause allergy. May cause hypersensitivity.
<b>Route of exposure</b>	Skin and/or eye contact Ingestion.
<b>Medical considerations</b>	May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

### Toxicological information on ingredients.

#### HYDROQUINONE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 375.0

Species Rat

ATE oral (mg/kg) 375.0

##### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

#### 1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 566.0

Species Rat

ATE oral (mg/kg) 566.0

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Toxicity** The product contains a substance which is very toxic to aquatic organisms.

### Ecological information on ingredients.

#### SODIUM CARBONATE

##### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 320 (Bluegill) mg/l, Fish

#### HYDROQUINONE

##### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.10-0.18 (Fathead Minnow) mg/l, Fish

## Ifosol 3 Film Developer

**Acute toxicity - aquatic invertebrates**      EC<sub>50</sub>, 48 hours: 0.05 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**      IC<sub>50</sub>, 72 hours: 1.0 mg/l, Algae

### 1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

#### Acute aquatic toxicity

**Acute toxicity - fish**      LC<sub>50</sub>, 96 hours: 32 (Rainbow Trout) mg/l, Fish

**Acute toxicity - aquatic invertebrates**      EC<sub>50</sub>, 48 hours: 1.7 mg/l, Daphnia magna

#### 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 vPvB assessment

**Results of PBT and vPvB assessment**    This product does not contain any substances classified as PBT or vPvB.

#### Ecological information on ingredients.

### HYDROQUINONE

**Results of PBT and vPvB assessment**    This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects**      None known.

### SECTION 13: Disposal considerations

#### 13.1. 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.

**Waste class**      EU Waste Number: 090101

### SECTION 14: Transport information

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

**Road transport notes**      Not classified.

**Rail transport notes**      Not classified.

**Sea transport notes**      Not classified.

## Ifosol 3 Film Developer

**Air transport notes** Not classified.

### 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 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 environmental regulations/legislation specific for the substance or mixture

#### **EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

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 (as amended).

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.

#### **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



## Ifosol 3 Film Developer

<b>General information</b>	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.
<b>Key literature references and sources for data</b>	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.
<b>Issued by</b>	Mr James Cooper, HARMAN Technology Ltd, Mobberley, Knutsford, Cheshire, WA16 7GB, ENGLAND, United Kingdom, Tel.: +44(0)1565 650000 email: james.cooper@harmantechnology.com
<b>Revision date</b>	16/09/2022
<b>Revision</b>	4
<b>Supersedes date</b>	12/01/2021
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. EUH208 Contains HYDROQUINONE, 1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone. May produce an allergic reaction.

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## HARMAN technology Ltd

### 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

<b>Maximum duration</b>	1 hour per day for diluting liquid concentrates or dissolving powders (when applicable).  1 hour per day for mixing and disposal activities. 6 hours per day for application (= processing).
<b>Frequency of exposure</b>	Dissolving powders: 25 days per year. Diluting liquids and all other activities: 50 days per year.
<b>Physical state</b>	As supplied: liquid concentrates or powder concentrates. As used, after making up: aqueous working solution.
<b>Process conditions</b>	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

<b>Conditions and measures related to Personal Protection Equipment (PPE), hygiene and health evaluation</b>	<p>Wear safety glasses with side shields. Wear appropriate chemical resistant gloves: see section 8 of the SDS. Wear lab coat or overall. No respiratory protective equipment is required under normal conditions of use, provided 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.</p>
	

#### Good practice advice

Use personal protective equipment as required.  
Wash hands before breaks and after work.  
Keep good hygiene and safety practice.  
Use only with adequate ventilation.  
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

<b>Maximum duration</b>	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).
<b>Frequency of exposure</b>	Dissolving powders: 12 days per year. Diluting liquids and all other activities: 25 days per year.
<b>Physical state</b>	As supplied: liquid concentrate or powder concentrate. As used, after making up: aqueous working strength solution.
<b>Process conditions</b>	Covers use at ambient temperatures. Provide a good standard of ventilation. Avoid direct contact. Regular cleaning of equipment and work area.

#### Risk management measures

<b>Conditions and measures related to Personal Protection Equipment (PPE), hygiene and health evaluation</b>	Wear safety glasses with side shields. Wear appropriate chemical resistant gloves: see section 8 of the SDS. Wear lab coat or overall. Provide adequate ventilation. Avoid breathing dust (when handling powders), mist/vapours. Avoid contact with skin, eyes and clothing.
	

#### Good practice advice

Use Personal Protective Equipment as required. Wash hands before breaks and after work. Use only with adequate ventilation. Do not eat, drink or smoke when using this product.	
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#### Environmental measures

Do not allow this material to drain into sewers/water supplies.  
Dispose of waste material according 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).

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