Issue date: 10/16/2020



SAFETY DATA SHEET

Photographic Film Developer Solution

According to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g), revised in 2012

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product

identifier

Product name SP-Ultra-4LF

Container size

72g

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

Identified uses Photographic Developer Solution

1.3. Details of the supplier of the safety data sheet

Supplier

Stearman Press LLC 125 Stearman Court Erie CO 80516

Contact person Tel: 303-926-9052

email: info@stearmanpress.com

1.4. Emergency telephone number

Emergency telephone: (800) 633-8253 (USA); (801) 629-0667 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351

Environmental hazards

2.2. Label elements

Aquatic Acute 1 - H400

Pictogram









Signal word

Danger

Hazard statements H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H400 Very toxic to aquatic life.

Precautionary statements P273 Avoid release to the environment.

P280 Wear protective clothing, gloves, eye & face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

Contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with local regulations.

Contains HYDROQUINONE

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SODIUM SULFITE (anhydrous) 75-85%

CAS number: 7757-83-7

Classification

Skin damage - H315 Eye damage - H319

HYDROQUINONE 5-10%

CAS number: 123-31-9

Classification

Acute Tox. 4 - H302 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351 Aquatic Acute 1 - H400

DIMEZONE S (4-(hydroxymethyl)-4-methyl-1-phenyl-3-pyrazolidone)

CAS number: 13047-13-7

less than 3%

Classification

Acute Tox. 4, Skin Irrit. 2, Eye Irrit. Harmful if swallowed - H302 skin irritation - H315 eye irritation - H319 respiratory irritation - H335 Issue date: 10/16/2020

Photographic Film Developer Solution

POTASSIUM 5-10%

CAS number: 548-08-7

Classification Eve irritation – H319

Harmful if swallowed -H302

POTASSIUM BROMIDE less than 2%

CAS number: 7758-02-3

Classification

skin irritation - H315

Eye damage – H319 Respiratory irritation - H335

Aquatic Tox- H402

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 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. 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

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

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

Notes for the doctor No specific recommendations.

Issue date: 10/16/2020

Photographic Film Developer Solution

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

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

products 5.3. Advice for firefighters

Protective actions during

firefiahtina

Special protective

equipment for firefighters Avoid breathing fire gases or vapours.

Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for firefighting: 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

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.

Chemical storage.

Storage class 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

8.2. Exposure controls

Sodium sulfite (anhydrous)	PEL not determined
	REL 2* mg/m³
Hydroquinone	PEL Long-term value: 2 mg/m³
	REL Ceiling limit value: 2* mg/m³
	*15-min
	TLV Long-term value: 1 mg/m³
Dimezone S	PEL not determined
Potassium carbonate (anhy)	PEL 5 mg/ m³
	REL not determind
Potassium bromide	PEL not determind

Protective equipment







Appropriate engineering

Controls

Provide adequate ventilation. This product must not be handled in a confined space without

Eyewear complying with an approved standard should be worn if a risk assessment indicates

adequate ventilation.

eye contact is possible.

Hand protection Use protective gloves.

Other skin and body

Eye/face protection

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 crystalline liquid.

Color white.

Odour No characteristic odour.

pH pH (concentrated solution): 8.7

Initial boiling point and

range >100°C @ 760 mm Hg

Relative density 1.75 @ 20°C

Solubility(ies)
9.2. Other
information

100% Soluble in water.

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous

ssibility of flazardous

Under normal conditions of storage and use, no hazardous reactions will occur.

reactions Conditions to

10.4. avoid

_ ...

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

10.5. materials

Materials to avoid

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

Hazardous decomposition

10.6. products

Hazardous

decomposition Thermal decomposition or combustion products may include the following substances: Oxides

products of: Carbon. Sulphur. Nitrogen. Potassium. Sodium.

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.

Acute toxicity -

oral

ATE oral (mg/kg)

7,804.72

Germ cell mutagenicity

Genotoxicity - in

vitro

The product contains a substance that is classified as: Suspected of causig genetic defects.

Carcinogenicit

,___

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

Reproductive toxicity

Reproductive toxicity - fertility The product contains a substance that is classified as: May damage fertility. May damage

the

unborn child.

Reproductive toxicity - The product contains a substance that is classified as: May damage fertility. May damage the

development

unborn child.

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.

Inhalation May cause respiratory system irritation.

Ingestion Harmful if swallowed.

Skin contact Irritating to skin. May cause sensitisation by skin contact. May cause allergic contact eczema.

Eye contact Irritation of eyes and mucous membranes. Repeated exposure may cause chronic eye

irritation.

Acute and chronic health

hazards

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.

Route of entry Skin and/or eye contact Ingestion.

Medical considerations May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

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 bio accumulation.

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.

HYDROQUINONE

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment

methods

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 090101

SECTION 14: Transport information

General Exceptions relating to marine pollutants in small packages apply to this product, so that it is

not required to be labelled or transported in accordance with dangerous goods regulations.

See ADR SP 375, IATA SP A197, and IMDG 2.10.2.7.

14.1. UN proper shipping

name

UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains hydroquinone).

Proper shipping name (ADR/RID)

UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains hydroquinone).

Proper shipping name (IMDG)

UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains hydroquinone).

Proper shipping name

(ICAO)

UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains hydroquinone).

Proper shipping name (ADN)

14.3. Transport hazard class(es)

ADR/RID class 9 (M6)

ADR/RID label 9

IMDG class 9

ICAO class/division 9

SECTION 15: Regulatory information

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

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 Stearman Press Llc believe the information and recommendations contained 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.

sources for data Material Safety Data Sheet, Misc. manufacturers. Dangerous Properties of Industrial

Key literature references and European Photographic Chemical Industry Code of Practice For Classification And Labelling

Chemicals, 6.edition, N.Sax, 1984.

Hazard statements H302 Harmful if swallowed.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

H403 toxic to aquatic life.



Safe Use of Mixtures Information

Automated Photo processing using Aqueous based Products

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 delivery, storage, loading, cleaning and mixing operations.
	4-8 hours per day for application.
Frequency of exposure	240 days per year.
Physical state	Aqueous solutions (aq).
Process conditions	Covers use at ambient temperatures. Provide a good standard of controlled ven6la6on (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. Supervision in place to check that Risk Management Measures (RMM's) are in place and are being correctly used and Operational Conditions (OC's) followed.

Risk management measures

Conditions and measures related to

Personal Protection Equipment (PPE), hygiene and health evaluation Delivery & storage: Wear suitable gloves and labcoat.

Application: Wear labcoat and if there is a chance of exposure wear suitable eye protection and suitable gloves.

Loading/Cleaning/ Mixing: Wear suitable eye protection with side shield, suitable gloves and labcoat.

Wear appropriate chemical resistant gloves: see Section 8 of the SDS.

No respiratory protective equipment should be required under normal conditions of use provided that adequate ventilation is in place.

Eye wash station and emergency showers are recommended.

Avoid breathing mist/vapours.

Avoid contact with skin, eyes and clothing.

Training of workers in relation to proper use and maintenance of all Personal Protective Equipment must be ensured.







Good practice advice

Use personal protective equipment as required.

Wash hands before breaks and after work.

Keep good industrial hygiene and safety practice.

Use only with adequate ventilation.

Do not eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Store at room temperature.





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.

Ensure collection and disposal with appropriately licenced waste contractor.

Do not dispose of together with general office waste.

Use descriptors

IS- Use at industrial sites.

Widespread use by professional workers.

Printing and reproduction of recorded media.

Photochemicals.

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions.

Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition. PROC5- Mixing and blending in batch processes.

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

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

Treatment of articles by dipping and pouring.

Use of reactive processing aid at industrial site (no inclusion into or onto article).

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 is provided.

All ingredients contributing to the classification are stated in Section 3 of the SDS.

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.

Note that this will be usually the concentrate needed to create the working strength (WS) solution. In some cases the product will be RTU (Ready to Use) and will not require diluting. Hence there is a need to estimate the WS composition on a cases by case basis.

Mixing aqueous solutions creates a slightly different risk management method than mixing powders as the latter is normally done by operators wearing respirators suitable for the particle size and hazard posed by the substance(s).