SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : B/W SVILUPPO FILM D 96
Trades code : BW D 96 F

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

Photographic Process
Sectors of use:
Professional use[SU22]
Product category:
Photochemicals
Process categories:
Mixing or blending in batch processes for formulation of preparations* and ar- ticles (multistage and/or significant contact)[PROC5]
Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Bellini Foto S.r.l. (PG) - Tel . +39 075 985 174

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:
Pictograms:
None
Hazard Class and Category Code(s):
Nonhazardous
Hazard statement Code(s):
Nonhazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:
Pictogram, Signal Word Code(s):
None
Hazard statement Code(s):
Nonhazardous
Supplemental Hazard statement Code(s):
EUH208 - Contains bis(4-hydroxy-N-methylanilinium) sulphate, hydroquinone. May produce an allergic reaction.
EUH210 - Safety data sheet available on request.
Precautionary statements:
None in particular.
Contains:

bis(4-hydroxy-N-methylanilinium) sulphate, hydroquinone, Sodium tetraborate decahydrate

2.3. Other hazards

It Contains :
Sodium tetraborate decahydrate - SVHC
No information on other hazards

SECTION3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
Sodium tetraborate decahydrate - SVHC	>= 0,3 <= 1%	Repr. 1B, H360FD	005-011-00-4	1330-43-4	215-540-4	01-2119490790-32
hydroquinone	> 0,1 < 1%	Acute Tox. 4, H302; Skin Sens. 1, H317; Eye Dam. 1, H318; Muta. 2, H341; Carc. 2, H351; Aquatic Acute 1, H400 Acute toxicity M-factor = 10	604-005-00-4	123-31-9	204-617-8	1-2119524016-51
bis(4-hydroxy-N-methylanilinium) sulphate	> 0,1 < 1%	Acute Tox. 4, H302; Skin Sens. 1, H317; STOT RE 2, H373; Aquatic Chronic 1, H410	650-031-00-4	55-55-0	200-237-1	NR

SECTION4. First aid measures

4.1. Description of first aid measures

Inhalation:
Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area.
If you feel unwell seek medical advice.
Direct contact with skin (of the pure product).:
Wash thoroughly with soap and running water.
Direct contact with eyes (of the pure product).:
Wash immediately and thorougly with running water for at least 10 minutes.
Ingestion:
Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

No data available.

SECTION5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:
Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.
Extinguishing means to avoid:
Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus
Safety helmet and full protective suit.
The spray water can be used to protect the people involved in the extinction
You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)
Keep containers cool with water spray

SECTION6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Leave the area surrounding the spill or release. Do not smoke
Wear gloves and protective clothing
6.1.2 For emergency responders:
Eliminate all unguarded flames and possible sources of ignition. No smoking.
Provision of sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.
If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the the authorities.
Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.
Prevent it from entering the sewer system.
6.3.2 For cleaning up:
After wiping up, wash with water the area and materials involved
6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and `direct exposure of sunlight.

7.3. Specific end use(s)

Professional use:
Photographic and cinematographic treatment

SECTION8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:
Sodium tetraborate decahydrate:
Contains no substances with occupational exposure limit value.
hydroquinone:
TLV: TWA 1 mg/m ³ as A3 (carcinogen recognized for the animal with unknown relevance to humans); (ACGIH 2004).
MAK: skin absorption (H); Carcinogenicity class: 2; Group mutagen to germ cells: 3A; (DFG 2004).
bis(4-hydroxy-N-methylanilinium) sulphate:
Contains no substances with occupational exposure limit value.
- Substance: hydroquinone
DNEL
Systemic effects Long term Workers inhalation = 7 (mg/m3)
Systemic effects Long term Workers dermal = 128 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,74 (mg/m3)
Systemic effects Long term Consumers dermal = 64 (mg/kg bw/day)
Local effects Long term Workers inhalation = 1
Local effects Long term Consumers inhalation = 0,5 (mg/m3)
PNEC
Sweet water = 0,000114 (mg/l)
sediment Sweet water = 0,00098 (mg/kg/sediment)
Sea water = 0,000114 (mg/l)
sediment Sea water = 0,000097 (mg/kg/sediment)
intermittent emissions = 0,00134 (mg/l)
STP = 0,000129 (mg/l)

8.2. Exposure controls

Appropriate engineering controls:
Professional use:
Not established
Individual protection measures:
(a) Eye / face protection
Not needed for normal use.
(b) Skin protection
(i) Hand protection
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)
(ii) Other
Wear normal work clothing.
(c) Respiratory protection
Not needed for normal use.
(d) Thermal hazards
No hazard to report
Environmental exposure controls:
Related to contained substances:
Sodium tetraborate decahydrate:
Prevent further leakage or spillage if this can be done without danger. Do not let product enter drains.
hydroquinone:
Do not let this chemical contaminates the environment.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	undefined	
Odour threshold	Irrilevant	
pH	8.70 ± 0.05 A 27 °C	pH METRO
Melting point/freezing point	not determined	
Initial boiling point and boiling range	> 100 °C	
Flash point	non flammable	ASTM D92
Evaporation rate	Irrilevant	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	Irrilevant	
Vapour pressure	Irrilevant	
Vapour density	Irrilevant	
Relative density	1.065 ± 0.005 a 20 °C	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Irrilevant	
Auto-ignition temperature	Irrilevant	
Decomposition temperature	Irrilevant	
Viscosity	Irrilevant	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION10. Stability and reactivity

10.1. Reactivity

Related to contained substances:
Sodium tetraborate decahydrate:
Stable under normal conditions
hydroquinone:
Not known
bis(4-hydroxy-N-methylanilinium) sulphate:
No data available

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

It can generate toxic gases to contact with acids, amide, aliphatic and aromatic amines, carbamate, halogenated substances, isocyanetic, organic sulfide, nitrile, organic phosphates, inorganic sulfide, polymerizable compounds.
It can be easy ignite in contact with other substances.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 6.516,1 mg/kg
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: bis(4-hydroxy-N-methylanilinium) sulphate: Oral LD50-mouse-565 mg/kg observations: behavior: somnolence (General depressed activity) behavior: shaking the kidney, ureter, bladder: other alterations of the composition of urine
Oral-rat TDLo-9350 mg/kg
Remark: the endocrine system: other Blood abnormalities: abnormalities of the spleen
TDLo Oral-rat-
Remark: the kidney, ureter, bladder: alterations of the tubules (including renal failure, acute tubular necrosis) endocrine system: other alterations
(b) skin corrosion/irritationbased on available data, the classification criteria are not met.
(c) serious eye damage/irritation: hydroquinone: Strong irritant with risk of serious damage to eyes.
bis(4-hydroxy-N-methylanilinium) sulphate: Irritating to eyes, respiratory system and skin.
(d) respiratory or skin sensitization: hydroquinone: May cause sensitization by skin contact.
bis(4-hydroxy-N-methylanilinium) sulphate: May cause an allergic reaction on the skin.
(e) germ cell mutagenicity: hydroquinone: Muta. 2,
(f) carcinogenicity: hydroquinone: CARC. 2
bis(4-hydroxy-N-methylanilinium) sulphate: IARC: no component of this product present at levels greater than or equal to 0.1%
identified as a known or anticipated carcinogen by IARC.
(g) reproductive toxicity: based on available data, the classification criteria are not met.
(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
(i) specific target organ toxicity (STOT) repeated exposurebased on available data, the classification criteria are not met.
(j) aspiration hazard: based on available data, the classification criteria are not met.
Related to contained substances:
Sodium tetraborate decahydrate:
Exposure: the substance can be absorbed into the body by inhalation of its aerosol, by ingestion and through the damaged skin.
INHALATION RISK: evaporation at 20 C is negligible; a harmful concentration of particles in the air can be reached quickly when dispersed, especially if powdered.
Effects of short-term EXPOSURE: the substance is irritating to eyes, skin and respiratory tract. The substance can determine effects on the central nervous system, kidneys and gastrointestinal tract by ingestion of high doses or through the damaged skin.
EFFECTS of repeated exposure: repeated or prolonged or long term contact with the skin may cause dermatitis. The substance can have effect on the respiratory tract.
hydroquinone:
LD50 (rat) Oral (mg/kg body weight) = 375
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000
bis(4-hydroxy-N-methylanilinium) sulphate:
Exposure: the substance can be absorbed into the body by ingestion.

INHALATION RISK: there is no evidence to suggest that it can be reached a dangerous concentration in the air.
Effects of short-term EXPOSURE: the substance is moderately irritating to the skin and it is irritating to eyes and respiratory tract EFFECTS of repeated exposure or repeated or prolonged Contact in the long term: may cause skin sensitization. The substance can have effect on the blood, causing injury to blood cells.
Acute hazards/symptoms INHALATION cough. Sore throat.
SKIN Redness.
EYE Redness. Pain.

N O T E effects on humans from exposure to the substance have not been investigated adequately.
LD50 (rat) Oral (mg/kg body weight) = 9,35

SECTION12. Ecological information

12.1. Toxicity

Related to contained substances:
Sodium tetraborate decahydrate:
The substance is harmful to aquatic organisms.
C(E)L50 (mg/l) = 178
hydroquinone:
LC-50 (fish, 96 h): 0638 mg/l
EC-50 (daphnide, 48 h): 0134 mg/l
Aquatic invertebrates: NOEC (daphnide, 21 d): 0.0057 mg/l
Toxicity to aquatic plants EC-50 (seaweed, 72 h): 0.33 mg/l
NOEC: (seaweed, 72 h): 0.019 mg/l
Acute toxicity M-factor = 10
bis(4-hydroxy-N-methylanilinium) sulphate:
No data available
Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:
hydroquinone:
There are no more information.
bis(4-hydroxy-N-methylanilinium) sulphate:
No data available

12.3. Bioaccumulative potential

Related to contained substances:
hydroquinone:
No data available.
bis(4-hydroxy-N-methylanilinium) sulphate:
No data available

12.4. Mobility in soil

Related to contained substances:
hydroquinone:
No data available. Ecotoxical effects:
Comments: very toxic to fish.
Further guidance on environmental matters:
Do not enter or ground water, water course or sewage system.
Toxic to fish and plankton.
Very toxic to aquatic organisms
Pericolosit for class 3 waters (D) very dangerous (assessment):
Danger to drinking water if even extremely small quantities leak into soil
bis(4-hydroxy-N-methylanilinium) sulphate:
No data available

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Other adverse effects

No adverse effects

SECTION13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION14. Transport information

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

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

It is not intended to carry bulk

SECTION15. Regulatory information

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

Legislative Decree. 02/03/1997 n. 52 (Classification, packaging and labeling of dangerous substances). Legislative Decree 14/03/2003 n. 65 (Classification, packaging and labeling of dangerous substances). Legislative Decree. 02/02/2002 n. 25 (Risks related to chemical agents at work). D.M. 26/02/2004 Work (Exposure Limits Professional); D.M. 03/04/2007 (Implementation of Directive n. 2006/8 / EC). Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) 790 / 2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter).

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION16. Other information

16.1. Other information

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.2. Label elements, 2.3. Other hazards, 8.1. Control parameters, 8.2. Exposure controls, 10.1. Reactivity, 10.5. Incompatible materials, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 12.5. Results of PBT and vPvB assessment, 13.1. Waste treatment methods

Description of the hazard statements exposed to point 3

H360FD = May damage fertility. May damage the unborn child.
H302 = Harmful if swallowed.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H341 = Suspected of causing genetic defects
H351 = Suspected of causing cancer .
H400 = Very toxic to aquatic life.
H373 = May cause damage to organs through prolonged or repeated exposure
H410 = Very toxic to aquatic life with long lasting effects.

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC
Directive 2001/60/EC
Regulation 1272/2008/EC
Regulation 2010/453/EC
Regolamento529/2012 and subsequent updates

This data sheet cancels and replaces any previous edition.