

**SECTION1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product code : E 6 SVILUPPO B COLORE PARTE B  
Trades code : E 6 CD B

**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 articles (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**

BELLINI FOTO S.r.l.

VIA FERRIERA, 68 - 06089 - TORGIANO - PERUGIA

ITALY

Tel +39 075 985 174 Fax +39 075 985 288

E-mail:info@bellinifoto.it - Web: www.bellinifoto.it

E-mail technical assistance: enrico.pompili@bellinifoto.it

Produced by

BELLINI FOTO S.r.l.

Via Ferriera, 68 06089 TORGIANO - PG - ITALY Tel. +39 075 985174

**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:

GHS05, GHS07, GHS09

Hazard Class and Category Code(s):

Acute Tox. 4, Skin Corr. 1, Skin Sens. 1, Eye Dam. 1, Aquatic Chronic 2

Hazard statement Code(s):

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H411 - Toxic to aquatic life with long lasting effects.

Harmful product: do not ingest

Corrosive product: causes severe skin burns and eye damage.

The product, if brought into contact with skin can cause skin sensitization.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

The product is dangerous to the environment as it is toxic to aquatic life with long lasting effects

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS05, GHS07, GHS09 - Danger

Hazard statement Code(s):

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H411 - Toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):

EUH031 - Contact with acids liberates toxic gas.

Precautionary statements:

Prevention

P260 - Do not breathe dust, fume, gas, mist, vapours, spray.

P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.

P273 - Avoid release to the environment.

P280 - Wear protective gloves protective clothing eye protection face protection.

Response

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a doctor if symptoms persist

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

Disposal

P501 - Dispose of contents and container in accordance with the laws in force

Contains:

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate, Potassium metabisulfite

## 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII  
The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with Dlg. April 9, 2008 # 81. Workers exposed to this chemical agent should not be subjected to health surveillance if the results of the risk assessment show that, in relation to the type and quantity of hazardous chemical agent and that agent exposure frequency and mode, you just a "moderate risk" for the health and safety of workers and that the measures laid down in the decree are sufficient to reduce the risk.

## SECTION3. Composition/information on ingredients

### 3.1 Substances

Irrilevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate	> 10 <= 20%	Acute Tox. 3, H301; Acute Tox. 4, H302; Skin Sens. 1, H317; Eye Dam. 1, H318; Aquatic Acute 1,	612-134-00-2	25646-71-3	247-161-5	05-2116791 934-28-000 0

Issued on 06/09/2011 - Rel. # 4 on 10/08/2015

# 3 / 10

In conformity to Regulation (EU) 2015/830

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
		H400; Aquatic Chronic 1, H410				
Potassium metabisulfite	> 1 <= 5%	EUH031; Eye Dam. 1, H318		16731-55-8	240-795-3	01-2119537 422-45-000 1

**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):**

Take contaminated clothing Immediately off.

In case of contact with skin, wash immediately with water.

Consult a physician immediately

**Direct contact with eyes (of the pure product):**

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

**Ingestion:**

The product is harmful and can cause irreversible damages even following a single exposure if swallowed.

Drink water with egg white; do not give bicarbonate.

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

**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**

IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention.

**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

**SECTION 6. 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 mask, 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 authorities.

Discharge the remains in compliance with the regulations

**6.3. Methods and material for containment and cleaning up****6.3.1 For containment:**

Rapidly recover the product, wear a mask and protective clothing

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:**

To clean the floor and all objects contaminated by this material use water

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

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors

Wear protective gloves protective clothing eye protection face protection.

In residential areas do not use on large surfaces.

At work do not eat or drink.

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

Contaminated work clothing should not be allowed out of the workplace.

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

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

Related to contained substances:

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:

Not established

- Substance: 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate

DNEL

Systemic effects Long term Workers inhalation = 0,822 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 2,33 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 0,145 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers dermal = 0,0833 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,0833 (mg/kg bw/day)

PNEC

Sweet water = 0,0004 (mg/l)

sediment Sweet water = 0,00144 (mg/kg/sediment)

Sea water = 0,0004 (mg/l)

sediment Sea water = 0,000144 (mg/kg/sediment)

intermittent emissions = 0,004 (mg/l)

STP = 0,77 (mg/l)

ground = 0,000053 (mg/kg ground)

- Substance: Potassium metabisulfite

DNEL

Systemic effects Long term Workers inhalation = 263 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers inhalation = 78 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers oral = 10 (mg/kg bw/day)

PNEC

Sweet water = 1,17 (mg/l)

Sea water = 0,12 (mg/l)

STP = 88,1 (mg/l)

**8.2. Exposure controls**

Appropriate engineering controls:

Professional use:

Not established

Individual protection measures:

(a) Eye / face protection

Wear mask

(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

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Related to contained substances:

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:

Individual protective equipment:

General protective and hygienic measures keep away from foodstuffs, beverages and feed. Immediately remove contaminated clothing.

Wash hands before breaks and after work. Do not inhale gases/fumes/aerosols. Avoid contact with eyes and skin.

Potassium metabisulfite:

Provide eyewash.



Issued on 06/09/2011 - Rel. # 4 on 10/08/2015

# 6 / 10

In conformity to Regulation (EU) 2015/830

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

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	Pungent	
Odour threshold	Irrilevant	
pH	1.50 ± 0.05 a 25 °C	pH METRO
Melting point/freezing point	Irrilevant	
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	0.6	
Relative density	1.085 ± 0.005 a 25 °C	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Irrilevant	
Auto-ignition temperature	non flammable	
Decomposition temperature	Irrilevant	
Viscosity	Irrilevant	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

**9.2. Other information**

No data available.

**SECTION 10. Stability and reactivity****10.1. Reactivity**

Related to contained substances:

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:

No data available

Potassium metabisulfite:

Reducing agent: tends to decompose slowly releasing sulphur dioxide.

**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

Issued on 06/09/2011 - Rel. # 4 on 10/08/2015

# 7 / 10

In conformity to Regulation (EU) 2015/830

**10.4. Conditions to avoid**

Nothing to report

**10.5. Incompatible materials**

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulfide, strong reducing agents.

It can generate toxic gases to contact with inorganic sulfide, strong reducing agents.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

ATE(mix) oral = 1.447,6 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: Harmful product: do not ingest

(b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate: Irritating to the skin: moderate (repeated application on the skin)

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. - If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate: Contact with the eyes causes irritation.

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate: Irritating to eyes (eyes unwashed): moderate

Irritating to eyes (eyes washed): light

(d) respiratory or skin sensitization: The product, if brought into contact with skin can cause skin sensitization.

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate: Repeated or prolonged contact with skin may cause sensitization.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate: No information available.

(g) reproductive toxicity: 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate: No information available.

(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 exposure based on available data, the classification criteria are not met.

(j) aspiration hazard: 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate: No information available.

Related to contained substances:

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:

LD50 (rat) Oral (mg/kg body weight) = 152

Potassium metabisulfite:

LD50 (rat) Oral (mg/kg body weight) = 2000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 5,5

**SECTION 12. Ecological information****12.1. Toxicity**

Related to contained substances:



4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:  
Toxic to fish (Lc50): 1.8 mg/l (exposure time: 96 h) Toxic for Daphnia (EC50): 3.2 mg/l (exposure time: 96 h) Toxic for Daphnia (NOEC): 1 mg/l (exposure time: 96 h) Toxic to other organisms. (EC50): 100 mg/l &gt; (mud)  
Potassium metabisulfite:  
EC50 Daphnia magna = 89 mg/l Value. test: 48 h  
EC50 Desmodesmus subspicatus Value = 43.8 mg/l For. test: 72 h  
LC50 Zebrafish 460-1000 mg/l for Value. test: 96 h  
The product is dangerous for the environment as it is toxic to aquatic organisms following acute exposure.  
Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

Related to contained substances:  
4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:  
Not readily biodegradable.  
Potassium metabisulfite:  
Cod = 140 mg O<sub>2</sub>/g

### 12.3. Bioaccumulative potential

Related to contained substances:  
4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:  
There are no more information.  
Potassium metabisulfite:  
Do not bioaccumulate.

### 12.4. Mobility in soil

Related to contained substances:  
4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:  
There are no more information.

### 12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

### 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. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

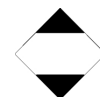
## SECTION14. Transport information

### 14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 1760  
ADR exemption because compliance with the following characteristics:  
Combination packagings: per inner packaging 5 L per package 30 Kg  
Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

### 14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO CORROSIVO, N.A.S. (sesquisulfato monoidrato di  
4-(N-etil-N-2-metanosolfonilaminoetil)-2-metilfenilendiamina)





Issued on 06/09/2011 - Rel. # 4 on 10/08/2015

# 9 / 10

In conformity to Regulation (EU) 2015/830

ADR/RID/IMDG: CORROSIVE LIQUID, N.O.S.

(4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate)

ICAO-IATA: CORROSIVE LIQUID, N.O.S. (4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate)

**14.3. Transport hazard class(es)**

ADR/RID/IMDG/ICAO-IATA: Class : 8

ADR/RID/IMDG/ICAO-IATA: Label : Limited quantities

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-A, S-B

**14.4. Packing group**

ADR/RID/IMDG/ICAO-IATA: III

**14.5. Environmental hazards**

ADR/RID/ICAO-IATA: Product is environmentally hazardous

IMDG: Marine polluting agent : Yes

**14.6. Special precautions for user**

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of the agreement A.D.R. applicable national provisions.

The transport must be carried out in the original packaging and in packages that are made from materials resistant to the content and not likely to generate with this dangerous reactions. Employees to the loading and unloading of dangerous goods have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

**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).

Seveso category:

E2 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:

HP8 - Corrosive

HP13 - Sensitising

HP14 - Ecotoxic

**15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

**SECTION16. Other information**

Issued on 06/09/2011 - Rel. # 4 on 10/08/2015

# 10 / 10

In conformity to Regulation (EU) 2015/830

---

**16.1. Other information**

Description of the hazard statements exposed to point 3

H301 = Toxic if swallowed.

H302 = Harmful if swallowed.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H400 = Very toxic to aquatic life.

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

Regolamento 529/2012 and subsequent updates

This data sheet cancels and replaces any previous edition.

---