

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

**1.1. Product identifier**

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

**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**

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**1.4. Emergency telephone number**

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**SECTION2. Hazards identification**

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

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS05

Hazard Class and Category Code(s):

Skin Corr. 1, Eye Dam. 1

Hazard statement Code(s):

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

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.

**2.2. Label elements**

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

Pictogram, Signal Word Code(s):

GHS05 - Danger

Hazard statement Code(s):



H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):  
not applicable

Precautionary statements:

Prevention

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

P264 - Thoroughly wash clothing after use.

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

Disposal

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

Contains:

potassium hydroxide

Content of VOC ready to use condition: 30,00 g/l

### 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 Dlgs. 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

Note B - Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
potassium hydroxide	> 10 <= 20%	Skin Corr. 2, H315; Eye Irrit. 2, H319	019-002-00-8	1310-58-3	215-181-3	01-2119487 136-33
phosphoric acid ... % Note: B	> 5 <= 10%	Met. Corr. 1, H290; Skin Corr. 1B, H314	015-011-00-6	7664-38-2	231-633-2	01-2119485 924-24

## 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:  
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**

Immediately call a doctor if symptoms persist

### **SECTION5. Firefighting measures**

#### **5.1. Extinguishing media**

Advised extinguishing agents:  
Water spray, CO<sub>2</sub>, 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 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 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:

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.  
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

- Substance: potassium hydroxide  
DNEL  
Local effects Long term Workers inhalation = 1  
Local effects Long term Consumers oral = 1 (mg/kg bw/day)  
- Substance: phosphoric acid ... %  
DNEL  
Systemic effects Short term Workers inhalation = 2 (mg/m<sup>3</sup>)  
Local effects Long term Workers inhalation = 1  
Local effects Long term Consumers inhalation = 0,73 (mg/m<sup>3</sup>)

### 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:  
 Use according to good working practices to avoid pollution into 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	undefined	
pH	13.80 ± 0.10 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	Not determined	
Flammability (solid, gas)	non flammable	
Upper/lower flammability or explosive limits	Not determined	
Vapour pressure	irrelevant	
Vapour density	0.6	
Relative density	1.180 ± 0.005 a 25°C	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	irrelevant	
Auto-ignition temperature	irrelevant	
Decomposition temperature	irrelevant	
Viscosity	irrelevant	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

### 9.2. Other information

Content of VOC ready to use condition: 30,00 g/l

## SECTION10. Stability and reactivity

### 10.1. Reactivity

Related to contained substances:  
 potassium hydroxide:  
 Reacts with water and acids.  
 phosphoric acid ... %:

Don't you know that under certain conditions hazardous reactions may occur even in the case of discharge into the environment.

**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 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 = ∞

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation Corrosive product: causes severe skin burns and eye damage.  
potassium hydroxide: strong caustic effect on skin and mucous membranes.

(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.

potassium hydroxide: strong caustic effect.

(d) respiratory or skin sensitization: based on available data, the classification criteria are not met.

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

(f) carcinogenicity: based on available data, the classification criteria are not met.

(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 exposure based 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:

potassium hydroxide:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosol and by ingestion. Inhalation risk Evaporation at 20 ° C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

EFFECTS OF SHORT-TERM EXPOSURE: Corrosive The substance 'very corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. Inhalation of an aerosol of this substance may cause lung edema (see Notes).

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis.

ACUTE HAZARDS / SYMPTOMS

Inhalation Corrosive. Burning sensation. Sore throat. Cough. Difficulty breathing. Shortness of breath. Symptoms may be delayed (see Notes).

SKIN Corrosive. Redness. Ache. Blisters. Serious skin burns.

EYES Corrosive. Redness. Ache. Blurred vision. Severe deep burns.

Ingestion Corrosive. Abdominal pain. Burning sensation. Shock or collapse.

LD50 (rat) Oral (mg/kg body weight) = 333

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 50

phosphoric acid ... %:

Routes of exposure: the substance can be absorbed into the body by inhalation of its aerosol e per ingestione.

INHALATION RISK: A dangerous contamination of the air will not be reached at all or I will very slowly on evaporation of the substance at 20 C.

Effects of short-term exposure: the substance is corrosive to the eyes, skin and respiratory tract. Corrosive if swallowed.

ACUTE HAZARDS/SYMPTOMS:

Inhalation: burning sensation. Cough. Shortness of breath. Sore throat.

: SKIN Redness. Pain. Skin burns. Blisters.

Eyes: Pain. Redness. Severe deep burns.

Ingestion: abdominal pain. Burning sensation. Shock or collapse.

LD50 (rat) Oral (mg/kg body weight) = 2600

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2740

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 100

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

potassium hydroxide:

LC50: *PesceGambusia affinis* Value = 80 mg/l For. test: 96 h

LC50: aquatic Microorganisms mosquito Value = 80 mg/l For. test: 12:00 am

phosphoric acid ... %:

Effects on the environment: acid, undesirable algal nutrient.

Ecotoxicity: TLm mosquito fish 138 mg/l 24/26 hours in cloudy water 22-24

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

Related to contained substances:

potassium hydroxide:

Not readily biodegradable

phosphoric acid ... %:

Persistence: while the acidity can be neutralized by natural water hardness, pu phosphate persist indefinitely.

### 12.3. Bioaccumulative potential

Related to contained substances:

potassium hydroxide:

Not foreseeable potential for bioaccumulation.

phosphoric acid ... %:

Bioaccumulative potential: zero.

### 12.4. Mobility in soil

Related to contained substances:

potassium hydroxide:

There is no specific information on this product.

phosphoric acid ... %:

Has little mobility in the soil and in its migration in the soil, it reacts with carbonates;

### 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

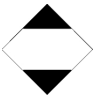
**SECTION14. Transport information****14.1. UN number**

ADR/RID/IMDG/ICAO-IATA: 1719

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

**14.2. UN proper shipping name**

ADR/RID/IMDG: LIQUIDO ALCALINO CAUSTICO N.A.S. (acido fosforico ... %, idrossido di potassio)

ADR/RID/IMDG: CAUSTIC ALKALI LIQUID, N.O.S. (phosphoric acid ... %, potassium hydroxide)

ICAO-IATA: CAUSTIC ALKALI LIQUID, N.O.S. (phosphoric acid ... %, potassium hydroxide)

**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 not environmentally hazardous

IMDG: Marine polluting agent : Not

**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**



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**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).  
REGULATION (EU) No 1357/2014 - waste:  
HP8 - Corrosive

**15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

**SECTION 16. 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, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 3.2 Mixtures, 7.1. Precautions for safe handling, 7.2. Conditions for safe storage, including any incompatibilities, 8.2. Exposure controls, 9.2. Other information, 10.1. Reactivity, 10.5. Incompatible materials, 10.6. Hazardous decomposition products, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 13.1. Waste treatment methods, 14.1. UN number, 14.2. UN proper shipping name, 14.3. Transport hazard class(es), 14.4. Packing group, 14.5. Environmental hazards, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of the hazard statements exposed to point 3

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

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.

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