

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

1.1. Product identifier

Product code : C 41 SVILUPPO MONODOSE
Trades code : TN CD

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:

GHS07

Hazard Class and Category Code(s):

Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Aquatic Chronic 3

Hazard statement Code(s):

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours, if brought into contact with skin, it causes significant inflammation with erythema, scabs, or edema

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

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

2.2. Label elements

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

Pictogram, Signal Word Code(s):

GHS07 - Warning

Hazard statement Code(s):

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

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

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

P337+P313 - If eye irritation persists: Get medical advice attention.

P363 - Wash contaminated clothing before reuse.

Disposal

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

Contains:

Potassium Carbonate an., (4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate



2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII
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
Potassium Carbonate an.	> 10 <= 20%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		584-08-7	209-529-3	01-2119532 646-36-001 0
diethylene glycol	> 1 <= 5%	Acute Tox. 4, H302; STOT RE 2, H373	603-140-00-6	111-46-6	203-872-2	01-2119457 857-21
(4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate	> 1 <= 5%	Acute Tox. 3, H301; Skin Sens. 1, H317; STOT RE 2, H373; Aquatic Chronic 1, H410	612-133-00-7	25646-77-9	247-162-0	
N-carboxymethyliminobis(ethylenitrilo)tetra(acetic acid)	> 1 <= 5%	Eye Irrit. 2, H319		67-43-6	200-652-8	

SECTION 4. 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.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

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:

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

If skin irritation occurs: Get medical advice attention.

If eye irritation persists: Get medical advice attention.

SECTION 5. 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 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.

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-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate:

Not established.

- Substance: Potassium Carbonate an.

DNEL

Local effects Long term Workers inhalation = 10

Local effects Long term Workers dermal = 16 (mg/kg bw/day)

Local effects Long term Consumers dermal = 8 (mg/kg bw/day)

Local effects Long term Consumers inhalation = 10 (mg/m³)

- Substance: diethylene glycol

DNEL

Systemic effects Long term Workers inhalation = 22,11 (mg/m³)

Systemic effects Long term Workers dermal = 1,37 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 12 (mg/m3)
 Systemic effects Long term Consumers dermal = 21 (mg/kg bw/day)
 Systemic effects Short term Workers inhalation = 60 (mg/m3)
 Local effects Long term Workers inhalation = 22,11
 Local effects Long term Consumers oral = 12 (mg/kg bw/day)
 Local effects Long term Consumers inhalation = 12 (mg/m3)
 PNEC
 Sweet water = 3,17 (mg/l)
 sediment Sweet water = 1,2 (mg/kg/sediment)
 Sea water = 0,317 (mg/l)
 sediment Sea water = 1,2 (mg/kg/sediment)
 intermittent emissions = 10 (mg/l)
 STP = 31,7 (mg/l)
 ground = 0,129 (mg/kg ground)

8.2. Exposure controls



Appropriate engineering controls:

Professional use:

Not established

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(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

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Related to contained substances:

Potassium Carbonate an.:

At work do not eat, don't drink, don't smoke.

Respiratory protection equipment

In the case of recommended use of dust dust mask.

Hand protection

Wear rubber gloves approved according to EN374.

Eye protection

Safety glasses with side-shields (EN 166).

Additional information about design of technical systems

Workplaces must be adequately ventilated. Where possible, install sources of local exhaust air replacement systems and effective General. If these measures are not sufficient to maintain concentrations of particulate materials and solvent vapours below the exposure limit, you will need to make use of adequate respiratory protection.

solfato di (4-ammonio-m-tolil)etil(2-idrossietil)ammonio

**** Not translated ****

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquid	

Physical and chemical properties	Value	Determination method
Odour	Irrilevant	
Odour threshold	Irrilevant	
pH	10,45	pH METRO
Melting point/freezing point	Not determined	
Initial boiling point and boiling range	> 100 °C	
Flash point	non flammable	ASTM D92
Evaporation rate	Not determined	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	undefined	
Vapour pressure	Irrilevant	
Vapour density	Not determined	
Relative density	1.260 ± 0.010 a 20°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:

Potassium Carbonate an.:

No hazardous reactions if stored and used properly.

diethylene glycol:

No dangerous reaction if stored and used properly.

(4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate:

Stable under normal conditions.

N-carboxymethyliminobis(ethylenitrilo)tetra(acetic acid):

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 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 = 2.762,4 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: Potassium Carbonate an.: Cause irritation to the mouth, throat, stomach and gastrointestinal problems

(b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

Potassium Carbonate an.: Corrosion on contact with the eyes and can cause severe burns and deep ulcerations that can leave scars

Potassium Carbonate an.: Causes skin irritation.

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

Potassium Carbonate an.: The seriousness of the injury depends on the concentration of the product, by time and temperature

Potassium Carbonate an.: Causes serious eye irritation.

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

Potassium Carbonate an.: May cause slight irritation.

(e) germ cell mutagenicity: Potassium Carbonate an.: The concentration that can produce mutagenic effects strongly elevated. On the basis of the limited mutagenicity found in animals, the risk of genetic damage on humans is considered insignificant.

(f) carcinogenicity: Potassium Carbonate an.: Not reported evidence of this effect

(g) reproductive toxicity: Potassium Carbonate an.: Not reported evidence of such an effect.

(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: Potassium Carbonate an.: Cause irritation to the respiratory tract.

Related to contained substances:

Potassium Carbonate an.:

The product may have harmful effects on human health.

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

diethylene glycol:

Harmful if ingested, it causes nausea, vomiting, gastrointestinal disorders. The product may have harmful effects on human health.

LD50 (rat) Oral (mg/kg body weight) = 19600

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 13300

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 4,6

(4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate:

It can cause allergic reactions on the basis of experiments on human subjects. Causes respiratory tract irritation.

LD50 (rat) Oral (mg/kg body weight) = 50

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 164
N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid):
LD50 (rat) Oral (mg/kg body weight) = 2000

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:
Potassium Carbonate an.:
Ec50 (Potassium CARBONATE; Nr. CAS: 584-08-7)
Daphnia Daphnia pulex Value = 200 mg/l For. test: 48 h
Lc50 (Potassium CARBONATE; Nr. CAS: 584-08-7)
Fish rainbow trout Value = 68 mg/l
C(E)L50 (mg/l) = 200
diethylene glycol:
Alga Scenedesmus quadricauda value = 2700 mg/l. Daphnia Daphnia magna test value = 84000 mg/l. test: 48 h
Acinetobacter bacteria value = 8000 mg/l. test: 4:0 pm
Fish Gambusia affinis > 32000 Value mg/l. test: 96 h
(4-ammonio-m-tolyl)ethyl(2-hydroxyethyl)ammonium sulphate:
Toxicity to fish (LC50): 0.1 mg / l (exposure time: 96 h)
Toxicity to daphnia (EC50): 0.63 to 0.78 mg / l (exposure time: 48 h)
Toxicity to algae (EC50): <4 mg / l
Toxicity to other organisms. (IC50): 218 mg / l (exposure time: 5 h)
C(E)L50 (mg/l) = 0,1
N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid):
C(E)L50 (mg/l) = 100
The product is dangerous for the environment as it is toxic for 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:
Potassium Carbonate an.:
Specific information is not available on this product.
diethylene glycol:
Readily biodegradable.

12.3. Bioaccumulative potential

Related to contained substances:
Potassium Carbonate an.:
Unpredictable potential for bioaccumulation.
diethylene glycol:
Not bioaccumulative.

12.4. Mobility in soil

Related to contained substances:
Potassium Carbonate an.:
Data not available
diethylene glycol:
Specific information is not available on this product.

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**

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**

Related to contained substances:

Potassium Carbonate an.:

EU Regulation 286/2011 (amending, for the purposes of adaptation to scientific and technical progress (ATP) of the Regulation no. 1272/2008 / EC).

Directive 67/548 / EEC (Classification, Packaging and Labeling of dangerous substances) and subsequent

amendments.

Directive 1999/45 / EC (Classification, Packaging and Labeling of dangerous preparations) and subsequent amendments.

Regulation no. 1907/2006 / EC (REACH).

Regulation no. 1272/2008 / EC (CLP).

Regulation no. 790/2009 / EC (amending, for the purposes of adaptation to scientific and technical progress, ATP Regulation no. 1272/2008 / EC).

EU Regulation 286/2011 (amending, for the purposes of adaptation to scientific and technical progress (ATP) of the Regulation no. 1272/2008 / EC).

EU Regulation 618/2012 (amending, for the purposes of adaptation to scientific and technical progress (ATP) of the Regulation no. 1272/2008 / EC).

EU Regulation 487/2013 (amending, for the purposes of adaptation to scientific and technical progress (ATP) of the Regulation no. 1272/2008 / EC).

Regulation 830/2015 / EU (amending Regulation (EC) no. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

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:

HP4 - Irritant — skin irritation and eye damage

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, 4.1. Description of first aid measures, 4.3. Indication of any immediate medical attention and special treatment needed, 6.3. Methods and material for containment and cleaning up, 7.1. Precautions for safe handling, 8.1. Control parameters, 8.2. Exposure controls, 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, 14.6. Special precautions for user, 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.

H335 = May cause respiratory irritation.

H302 = Harmful if swallowed.

H373 = May cause damage to organs through prolonged or repeated exposure

H301 = Toxic if swallowed.

H317 = May cause an allergic skin reaction.

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.