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

1.1. Product identifier

Product code : ECN SBIANCA UL
Trades code : ECN SBIANCA UL

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

BELLINI FOTO S.r.l.
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Tel +39 075 985 174 Fax +39 075 985 288

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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:
This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
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):
not applicable
Precautionary statements:
None in particular.

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
This document is outside the scope of Article 31 of REACH

SECTION3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

No substance to signal.

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

No data available.

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:
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	Light of vinegar	
Odour threshold	Irrilevant	
pH	5.10 ± 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	Irrilevant	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	Irrilevant	
Vapour pressure	Irrilevant	
Vapour density	0.6	
Relative density	1.190 ± 0.010 g/cm3 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	

Physical and chemical properties	Value	Determination method
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

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 solfide, strong reducing agents.

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 = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritationbased on available data, the classification criteria are not met.
(c) serious eye damage/irritation: based on available data, the classification criteria are not met.
(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 exposurebased on available data, the classification criteria are not

met.
(j) aspiration hazard: based on available data, the classification criteria are not met.

SECTION12. Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

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

The supplier has made an assessment of chemical safety

SECTION16. Other information

16.1. Other information

Points modified compared to previous release: 2.3. Other hazards, 8.2. Exposure controls, 11.1. Information on toxicological effects, 12.5. Results of PBT and vPvB assessment, 15.2. Chemical safety assessment
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.

SAFETY DATA SHEET

DEVELOPER PART A KITECN2-1L

In conformity to Regulation (EU) 2015/830

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

1.1. Product identifier

Product code : DEVELOPER PART A KITECN2-1L
Trades code : ECN DEV PART A KITECN2-1L

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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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):
Eye Irrit. 2
Hazard statement Code(s):
H319 - Causes serious eye irritation.
If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

2.2. Label elements

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

Pictogram, Signal Word Code(s):
GHS07 - Warning
Hazard statement Code(s):
H319 - Causes serious eye irritation.
Supplemental Hazard statement Code(s):
not applicable
Precautionary statements:
Prevention
P280 - Wear protective gloves protective clothing eye protection face protection.

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

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
sodium carbonate	>= 10 < 20%	Eye Irrit. 2, H319	011-005-00-2	497-19-8	207-838-8	

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.
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 eye irritation persists: 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

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

SECTION7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves protective clothing eye protection face protection.
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 carbonate:
Anyone.

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:
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	Irrilevant	
pH	10.60 ± 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	Irrilevant	
Relative density	1.140 ± 0.005 a 25 °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	

Physical and chemical properties	Value	Determination method

9.2. Other information

No data available.

SECTION10. Stability and reactivity

10.1. Reactivity

Related to contained substances:
sodium carbonate:
Stable under normal conditions of use.

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

Related to contained substances:
sodium carbonate:
Humidity

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 solfide, strong reducing agents.

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 = 300.000,0 mg/kg
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritationbased on available data, the classification criteria are not met.
(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.
(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 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 carbonate:
INHALATION RISK: a harmful concentration of areodisperse particles can be reached quickly especially if powdered.

Effects of short-term EXPOSURE: the substance is irritating to eyes, skin and respiratory tract.
Effects of long-term or REPEATED EXPOSURE: the substance may have effects on the respiratory tract, causing perforation of the nasal septum. Repeated or prolonged contact with skin may cause dermatitis.
Acute hazards/symptoms inhalation: cough. Sore throat.
Skin: Redness.
Ingestion: burning sensation in the throat and chest. Abdominal pain.
LD50 (rat) Oral (mg/kg body weight) = 2000
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 117
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 5200

SECTION12. Ecological information

12.1. Toxicity

Related to contained substances:
sodium carbonate:
Fish, Lepomis macrochirus, LC 50, 96 H, 300 mg/l
Crustaceans, Daphnia magna, EC 50, 48 H, 265 mg/l 50,
algae, Nitszcheria linearis, EC 5 Days, 242 mg/l
Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:
sodium carbonate:
Water, hydrolysis, degradation: calcium carbonate (pH > 10)/bicarbonate (pH 6-10)/carbonico/carbon dioxide acid (pH < 6) Ground score: hydrolysis as a function of pH

12.3. Bioaccumulative potential

Related to contained substances:
sodium carbonate:
Result: not applicable (product ionizable inorganic)

12.4. Mobility in soil

Related to contained substances:
sodium carbonate:
Insignificant adsorption

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

Description of the hazard statements exposed to point 3
H319 = Causes serious eye irritation.
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.

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

1.1. Product identifier

Product code : ECN B SVILUPPO Parte B
Trades code : ECN SVILUPPO 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 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

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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, GHS07, GHS09
Hazard Class and Category Code(s):
Acute Tox. 4, Skin Sens. 1B, Eye Dam. 1, Aquatic Chronic 2
Hazard statement Code(s):
H302 - Harmful if swallowed.
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
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.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H411 - Toxic 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
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
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

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

Substance	Concentration[w/w]	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, H400; Aquatic Chronic 1, H410	612-134-00-2	25646-71-3	247-161-5	05-2116791934-28-0000

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 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.
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

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:

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

SECTION7. 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

SECTION8. 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/m3)
Systemic effects Long term Workers dermal = 2,33 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 0,145 (mg/m3)
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)

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:

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.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	Pungent	
Odour threshold	Irrilevant	
pH	3.15 ± 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	Irrilevant	
Relative density	1.074 ± 0.005 a 25 °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:
4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:
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

Related to contained substances:
4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate:
Heat, flames, sparks and other sources of ignition.

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 solfide, strong reducing agents.

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 = 1.482,9 mg/kg
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: Harmful product: do not ingest
(b) skin corrosion/irritation4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate: Irritating to the skin: moderate (repeated application on the skin)
(c) serious eye damage/irritation: 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 exposurebased 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

SECTION12. 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 > (mud)
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.

12.3. Bioaccumulative potential

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

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

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. 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: 0000
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: MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA, N.A.S. (sesquisulfato monoidrato di 4-(N-etil-N-2-metanosolfonilaminoetil)-2-metilfenilendiamina)
ADR/RID/IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate)
ICAO-IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, 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 : 9

ADR/RID/IMDG/ICAO-IATA: Label :
ADR: Tunnel restriction code : --
ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L
IMDG - EmS : F-A, S-F

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:
HP4 - Irritant — skin irritation and eye damage
HP13 - Sensitising
HP14 - Ecotoxic

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: 2.3. Other hazards, 10.4. Conditions to avoid
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
Regolamento529/2012 and subsequent updates
This data sheet cancels and replaces any previous edition.

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

1.1. Product identifier

Product code : ECN ECP FINAL RINSE
Trades code : ECNP FINAL RINSE

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 con- tact)[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.
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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):
EUH210 - Safety data sheet available on request.
Precautionary statements:

None in particular.

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
diethylene glycol	> 1 <= 5%	Acute Tox. 4, H302; STOT RE 2, H373	603-140-00-6	111-46-6	203-872-2	01-2119457857-21

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

- 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
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:
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	Irrilevant	
pH	6.50 ± 0.05 a 25 °C	pH METRO

Physical and chemical properties	Value	Determination method
Melting point/freezing point	Irrilevant	
Initial boiling point and boiling range	non-oxidizing	
Flash point	non flammable	ASTM D92
Evaporation rate	Irrilevant	
Flammability (solid, gas)	non flammable	
Upper/lower flammability or explosive limits	Irrilevant	
Vapour pressure	Irrilevant	
Vapour density	Irrilevant	
Relative density	1.005 ± 0.05 a 25 °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:
diethylene glycol:
No dangerous reaction if stored and used properly.

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 solfide, strong reducing agents.

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 = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritationbased on available data, the classification criteria are not met.
(c) serious eye damage/irritation: based on available data, the classification criteria are not met.
(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 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:
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

SECTION12. Ecological information

12.1. Toxicity

Related to contained substances:
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
Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:
diethylene glycol:
Readily biodegradable.

12.3. Bioaccumulative potential

Related to contained substances:
diethylene glycol:
Not bioaccumulative.

12.4. Mobility in soil

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

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, 10.5. Incompatible materials, 11.1. Information on toxicological effects, 12.5. Results of PBT and vPvB assessment, 13.1. Waste treatment methods
Description of the hazard statements exposed to point 3
H302 = Harmful if swallowed.
H373 = May cause damage to organs through prolonged or repeated exposure
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.

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

1.1. Product identifier

Product code : ECN ECP FISSAGGIO
Trades code : ECNP FISSAGGIO

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):
EUH210 - Safety data sheet available on request.

Precautionary statements:
None in particular.

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
Ammonium hydrogensulphite	> 1 <= 5%	EUH031; Eye Irrit. 2, H319		10192-30-0	233-469-7	01-2119537321-49-0000

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:
Ammonium hydrogensulphite:
AMMONIUM BISULFITE solution-CAS: 10192-30-0
ACGIH, 0.25 ppm-notes: (SO2)
EU, 0.5 ppm, ppm-1 notes: (SO2)
DNEL exposure limit values
AMMONIUM BISULFITE-CAS: 10192-30-0
Industrial worker: 10 mg/m3-Human Inhalation exposure-frequency: long-term, systemic effects
Consumer: 0.901 mg/kg Oral Human exposure-frequency: long-term, local effects
PNEC exposure limit values
AMMONIUM BISULFITE-CAS: 10192-30-0
Target: fresh water-value: 1.04 mg/l
Target: seawater-value: 0.1 mg/l
Target: Microorganisms in wastewater treatment-value: 78.6 mg/l
- Substance: Ammonium hydrogensulphite
DNEL
Systemic effects Long term Workers inhalation = 10 (mg/m3)
Local effects Long term Consumers oral = 0,901 (mg/kg bw/day)
PNEC
Sweet water = 1,04 (mg/l)
Sea water = 0,1 (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:
Ammonium hydrogensulphite:
Eye protection:
Use protective visors closed, do not use eye lenses.
Skin protection:
Wear clothing that guarantee full protection for the skin, eg. cotton, rubber, PVC or viton.
Protection of hands:
Use protective gloves that provide for full protection, eg. PVC, neoprene or rubber.
Respiratory protection:

Where ventilation is insufficient or exposure is prolonged use of a respiratory protective device, eg. CEN/FFP-2 (S) or CEN/FFP-3 (S).
Thermal Hazards:
no
Environmental exposure controls:
no

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	Ammonia light	
Odour threshold	Irrilevant	
pH	6.40 ± 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	Irrilevant	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	Irrilevant	
Vapour pressure	Irrilevant	
Vapour density	Irrilevant	
Relative density	1.340 ± 0.010 a 25 °C	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Irrilevant	
Auto-ignition temperature	Irrilevant	
Decomposition temperature	> 170 °C	
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:
Ammonium hydrogensulphite:
Stable under normal conditions.

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 solfide, strong reducing agents.

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 = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritationbased on available data, the classification criteria are not met.
(c) serious eye damage/irritation: based on available data, the classification criteria are not met.
(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 exposurebased on available data, the classification criteria are not met.
(j) aspiration hazard: based on available data, the classification criteria are not met.
Health hazards:
Eye contact: accidental contact of the product with the eyes may cause irritation.
Contact with skin: the product is an irritant. Repeated or prolonged contact can degrease and irritate the skin and cause dermatitis in some cases.
Ingestion: ingestion can cause irritation of the mucous membranes of the throat and digestive system resulting in abnormal digestive symptoms and intestinal disorders.
Inhalation: prolonged exposure to vapours or mists of product may cause irritation to respiratory tract.
Related to contained substances:
Ammonium hydrogensulphite:
Toxicological information pertaining to the substance:
AMMONIUM BISULFITE solution-CAS: 10192-30-0
c) serious eye injuries/ocular severe irritation:
Test: corrosive to Positive eyes
The main impurities in substances: N.A.
Unless otherwise specified, the information required by regulation 453/2010/EC listed below are N.A.:
a) acute toxic;
b) corrosion/irritation;
c) serious eye injuries/ocular severe irritation;
(d) respiratory or skin sensitization);
e) germ cell mutagenicit;

f) cancerogenicit;
g) toxic to reproduction;
h) specific toxic to target organs (STOT) 14 single exposure;
the) toxic to target organs (STOT) 14 repeated exposure;
j) danger in case of aspiration.

SECTION12. Ecological information

12.1. Toxicity

Related to contained substances:
Ammonium hydrogensulphite:
Follow good working practices, avoid dispersion into the environment.
Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:
Ammonium hydrogensulphite:
Non-persistent and biodegradable.

12.3. Bioaccumulative potential

Related to contained substances:
Ammonium hydrogensulphite:
No

12.4. Mobility in soil

Related to contained substances:
Ammonium hydrogensulphite:
No

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. 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

Related to contained substances:
Ammonium hydrogensulphite:
Legislative Decree No. 81 4/9/2008
D.m. 2/26/2004 Work (occupational exposure limits)
Regulation (EC) No 1907/2006 (REACH)
Regulation (EC) no 1272/2008 (CLP)
Regulation (EC) no 790/2009 (ATP 1 CLP) and (EC) no 758/2013
Commission Regulation (EU) 2015/830
Commission Regulation (EU) no 286/2011 (ATP 2 CLP)
Commission Regulation (EU) no 618/2012 (ATP 3 CLP)
Commission Regulation (EU) no 487/2013 (ATP 4 CLP)
Commission Regulation (EU) no 944/2013 (ATP 5 CLP)
Commission Regulation (EU) no 605/2014 (ATP 6 CLP)
Restrictions on product or substances in accordance with annex XVII of Council Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Product restrictions: Restriction 3
Substances restrictions: no restrictions.
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

Description of the hazard statements exposed to point 3
H319 = Causes serious eye irritation.
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.

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

1.1. Product identifier

Product code : ECNP PREBAGNO
Trades code : ECNP PREBAGNO

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

Photographic Process
Sectors of use:
Professional use[SU22]
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

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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:
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):
EUH210 - Safety data sheet available on request.
Precautionary statements:
None in particular.

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

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

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.

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.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	Irrilevant	
Odour threshold	Not determined	
pH	9.20 ± 0.10	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	Irrilevant	
Relative density	1.090 ± 0.005	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Irrilevant	
Auto-ignition temperature	Irrilevant	
Decomposition temperature	Irrilevant	
Viscosity	Irrilevant	
Explosive properties	not determined	
Oxidising properties	non disponibile	

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

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 solfide, strong reducing agents.

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 = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritationbased on available data, the classification criteria are not met.
(c) serious eye damage/irritation: based on available data, the classification criteria are not met.
(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 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.

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

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

It Contains :
Sodium tetraborate decahydrate - SVHC

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

The supplier has made an assessment of chemical safety

SECTION16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3
H360FD = May damage fertility. May damage the unborn child.
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.

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

1.1. Product identifier

Product code : ECN ECP STOP
Trades code : ECNP STOP

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 con- tact)[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

CAS 7664-93-9 CEE 016-020-00-8 EINECS 231-639-5 REACH 01-2119458838-20
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:
Sulphuric acid 36 %

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[w/w]	Classification	Index	CAS	EINECS	REACh
Sulphuric acid 36 % Note: B	>= 14 <= 20%	Skin Corr. 1A, H314	016-020-00-8	7664-93-9	231-639-5	01-2119458838-20

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, 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 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

SECTION7. 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

SECTION8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:
Sulphuric acid 36 %:
Directive 2009/161/EU:
limit values (8 hours) = 0.05 mg/m3
Monitoring procedures: refer to Legislative Decree 81/08.
- Substance: Sulphuric acid 36 %
DNEL
Local effects Long term Workers inhalation = 0,05
Local effects Short term Workers inhalation = 0,1 (mg/m3)
PNEC
Sweet water = 0,0025 (mg/l)
Sea water = 0,00025 (mg/l)
sediment Sea water = 0,002 (mg/kg/sediment)

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:
Sulphuric acid 36 %:
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	Not determined	
Odour threshold	Irrilevant	
pH	< 0.50	pH METRO
Melting point/freezing point	Not determined	
Initial boiling point and boiling range	< 125 °C	
Flash point	non flammable	ASTM D92
Evaporation rate	Not determined	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	Irrilevant	
Vapour pressure	Irrilevant	
Vapour density	Irrilevant	
Relative density	non flammable	
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	Not determined	

9.2. Other information

No data available.

SECTION10. Stability and reactivity

10.1. Reactivity

Related to contained substances:
Sulphuric acid 36 %:
If you add the acid dilution water, never the reverse. Reacts violently with water.

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 carbamate, elementary metals, nitrile.
It can generate toxic gases to contact with amide, aliphatic and aromatic amines, compounds nitrogenized, dinitrogenized and hydrazine, carbamate, inorganic fluoride, halogenated organic substances, isocyanetic, sulfide, organic nitrous compounds, organic phosphates.
It can ignite in contact with alcohol and glyicol, aldehydes, ditiocarbamate, ester, ethers, hydrocarbons aromatic and aliphatic, halogenated organic substances, isocyanetic, ketone, sulfide, organic nitrous compounds, phenols and cresols.

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 = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritationCorrosive product: causes severe skin burns and eye damage.
(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.
(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 exposurebased on available data, the classification criteria are not met.
(j) aspiration hazard: based on available data, the classification criteria are not met.
ECN ECP STOP:
LD50 (rat) Oral (mg/kg body weight) = 5000
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1
Related to contained substances:
Sulphuric acid 36 %:

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.
Acute oral toxicity (LD50): 2140 mg/kg [Rat.].
Acute toxicity of the vapor (LC50): 320 mg/m3 2 hours [Mouse].
Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified 1 (Proven for human.) by IARC, + (Proven.) by OSHA. Classified A2 (Suspected for human.) by ACGIH.
May cause damage to the following organs: kidneys, lungs, heart, cardiovascular system, upper respiratory tract, eyes, teeth.
Other Toxic Effects on Humans:
Extremely hazardous in case of inhalation (lung corrosive).
Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion, .
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans:
Mutagenicity: Cytogenetic Analysis: Hamster, ovary = 4mmol/L
Reproductive effects: May cause adverse reproductive effects based on animal data. Developmental abnormalities (musculoskeletal) in rabbits at a dose of 20 mg/m3 for 7 hrs.(RTECS)
Teratogenecity: neither embryotoxic, fetoxic, nor teratogenetic in mice or rabbits at inhaled doses producing some maternal toxicity
Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects:
Skin: Causes severe skin irritation and burns. Continued contact can cause tissue necrosis.
Eye: Causes severe eye irritation and burns. May cause irreversible eye injury.
Ingestion: Harmful if swallowed. May cause permanent damage to the digestive tract. Causes gastrointestial tract burns. May cause perforation of the stomach, GI bleeding, edema of the glottis, necrosis and scarring, and sudden circulatory collapse(similar to acute inhalation). It may also cause systemic toxicity with acidosis.
Inhalation: May cause severe irritation of the respiratory tract and mucous membranes with sore throat, coughing, shortness of breath, and delayed lung edema. Causes chemical burns to the repiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Cause corrosive action on mucous membranes. May affect cardiovascular system (hypotension, depressed cardiac output, bradycardia). Circulatory collapse with clammy skin, weak and rapid pulse, shallow respiration, and scanty urine may follow. Circulatory shock is often the immediate cause of death. May also affect teeth(changes in teeth and supporting structures - erosion, discoloration).
Chronic Potential Health Effects:
Inhalation: Prolonged or repeated inhalation may affect behavior (muscle contraction or spasticity), urinary system (kidney damage), and cardiovascular system, heart (ischemic heart leisons), and respiratory system/lungs(pulmonary edema, lung damage), teeth (dental discoloration, erosion).
Skin: Prolonged or repeated skin contact may cause dermatitis, an allergic skin reaction.
LD50 (rat) Oral (mg/kg body weight) = 5000
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1

SECTION12. Ecological information

12.1. Toxicity

Related to contained substances:
Sulphuric acid 36 %:
Desmodesmus subspicatus algae growth inhibition: EC50 72h> 100 mg / l)
Fish freshwater Short term: Bluegill LC50 96h:> 16 - <28 mg / ll
Freshwater fish Long Term: Salvelinus fontinalis NOEC: 0.31 mg / l
Freshwater fish Long Term: Jordanella floridae NOEC (65d): 0.025 mg / l
Activated sludge in freshwater NOEC (37 d): ca. 26 g / l "weight of vidence"
Invertebrates Daphnia magna Short term: EL50 48 / hours:> 100 mg / l
Invertebrates Tanytarsus dissimilis Long Term: NOEC: 0.15 mg / l
Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:
Sulphuric acid 36 %:

Degradabilit: abiotic hydrolyzes the product
Biotic: Degradabilit not required as inorganic compound.

12.3. Bioaccumulative potential

Related to contained substances:
Sulphuric acid 36 %:
No data available

12.4. Mobility in soil

Related to contained substances:
Sulphuric acid 36 %:
Is not adsorbed by soil particles.

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. 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: 2796
ADR exemption because compliance with the following characteristics:
Combination packagings: per inner packaging 1 L per package 30 Kg
Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg

14.2. UN proper shipping name

ADR/RID/IMDG: ACIDO SOLFORICO non contenente più del 51% di acido o ELETTROLITA ACIDO PER ACCUMULATORI
ADR/RID/IMDG: SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID
ICAO-IATA: SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID

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 : 1 L
IMDG - EmS : F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II

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

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

SECTION16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3
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
Regolamento529/2012 and subsequent updates
This data sheet cancels and replaces any previous edition.