

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

Product code : EC STER Spray
 Trades code : ES0.75/10 - ES5.00/10

UFI: K300-F080-X008-AVUC

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

MEDICAL DEVICE

Sectors of use:

Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Disinfectant for objects and environments

Uses advised against

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

ICM srl

c/da Torre Quote San Francesco snc

89040 - Italia

tel +39 0964 361060

Orari di lavoro: Lunedì - Venerdì 09:00-12:00 e 15:00-17:00

Working hours: Monday - Friday 09:00-12:00 and 15:00-17:00

email : info@icmchemical.it

1.4. Emergency telephone number

tel +39 0964 361060

CENTRI ANTIVELENO:

Centro Antiveleni di Bergamo, Azienda Ospedaliera Papa Giovanni XXII, Piazza OMS - Organizzazione Mondiale della Sanità, 1, 24127 Bergamo, Numero di Emergenza Telefono 800 88 33 00, Italia

Centro Antiveleni di Milano, Ospedale Niguarda Ca' Granda, Piazza Ospedale Maggiore 3, 20162 Milano, Numero di Emergenza Telefono +39 02 6610 1029, Italia

Centro Antiveleni di Roma, CAV Policlinico "A. Gemelli", Dipartimento di, Tossicologia Clinica, Università Cattolica del Sacro Cuore, Largo Agostino Gemelli, 8, 00168 Roma, Numero di Emergenza Telefono +39 06 305 4343, Italia

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Centro Antiveleni di Firenze, Az. Osp. "Careggi" U.O. Tossicologia Medica,, S.O.D. di Tossicologia Clinicaicologia Clinica, Largo Brambilla, 3, 50134 Firenze, Numero di Emergenza Telefono +39 055 794 7819, Italia

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Centro Antiveleni di Roma, CAV "Osp. Pediatrico Bambino Gesù" Dip., Emergenza e Accettazione DEA, Piazza Sant'Onofrio, 4, 00165 Roma, Numero di Emergenza Telefono +39 06 6859 3726, Italia

Centro Antiveleni di Foggia, Az. Osp. Univ. Foggia, V.le Luigi Pinto, 1, 71122 Foggia, Numero di Emergenza Telefono +39 800 183 459, Italia

Centro Antiveleni di Napoli, Az. Osp. "A. Cardarelli", Via A. Cardarelli, 9, 80131 Napoli, Numero di Emergenza Telefono +39 081 54 53 333 Italia

Centro Antiveleni di Verona Azienda Ospedaliera Integrata Verona Piazzale Aristide Stefani, 1 , 37126 Verona Numero di Emergenza Telefono +39 800 011 858 Italia

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, GHS08

Hazard Class and Category Code(s):

Acute Tox. 4, Skin Corr. 1, Skin Sens. 1, Eye Dam. 1, Resp. Sens. 1, Aquatic Chronic 3

Hazard statement Code(s):

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H412 - Harmful to aquatic life with long lasting effects.

Harmful product: do not ingest

Corrosive product: causes severe skin burns and eye damage.

The product, if inhaled, can cause respiratory sensitization, and 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 harmful to aquatic life with long lasting effects

2.2. Label elements

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



Pictogram, Signal Word Code(s):

GHS05, GHS07, GHS08 - Danger

Hazard statement Code(s):

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H412 - Harmful to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

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

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

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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

P285 -

Response

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.

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

P302+P352 - IF ON SKIN: Wash with plenty of water/...

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

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 POISON CENTER/doctor/...
P321 - Specific treatment (see ... on this label).
P330 - Rinse mouth.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P363 - Wash contaminated clothing before reuse.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents/container to accordance with local regulations

Contains:

Pentapotassium bis(peroxymonosulphate) bis(sulphate), dipotassium peroxodisulphate, Disodium peroxide, Lithium carbonate

UFI: K300-F080-X008-AVUC

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

No information on other hazards

SECTION3. Composition/information on ingredients
3.1 Substances

Irrelevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	>= 25 < 50%	Acute Tox. 4, H302; Skin Corr. 1B, H314; Aquatic Chronic 3, H412 M-factor1 C(E)L50 (mg/l) = 1 ATE oral = 500,0 mg/kg ATE dermal = 2.000,0 mg/kg	ND	70693-62-8	274-778-7	01-2119485 567-22-000 0
sodium carbonate - FEMA -	>= 10 < 25%	Eye Irrit. 2, H319 ATE oral = 2.300,0 mg/kg	011-005-00-2	497-19-8	207-838-8	01-2119485 498-19
Lithium carbonate	>= 3 < 6%	Acute Tox. 4, H302; Eye Irrit. 2, H319 ATE oral = 525,0 mg/kg ATE dermal = 3.000,0	ND	554-13-2	209-062-5	01-2119516 034-53-XXX X

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
		mg/kg ATE inhal = 2,2mg/l/4 h				
dipotassium peroxodisulphate	>= 1 < 3%	Ox. Liq. 2, H272; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Resp. Sens. 1, H334; STOT SE 3, H335 ATE oral = 700,0 mg/kg ATE dermal = 2.000,0 mg/kg	016-061-00-1	7727-21-1	231-781-8	01-2119495 676-19-000 0

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 room.
CALL A PHYSICIAN.

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.
If breathing has stopped, give artificial respiration.

Direct contact with skin (of the pure product).:

Take contaminated clothing Immediately off.
In case of contact with skin, wash immediately with: water
Consult a physician immediately

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

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately
Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

The product is harmful and can cause irreversible damages even following a single exposure if swallowed.
Drink water with egg white; do not give bicarbonate.
Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

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

No data available.

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

If SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

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

Inform the competent 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 the removal.

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

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.

Protect from heat and direct sun exposure. Operate in well-ventilated. Keep away from sources of ignition-no smoking.
Take preventive measures to avoid electrostatic charges. Avoid contact with eyes. Do not inhale vapors or mists.

7.3. Specific end use(s)

Public domain (administration, education, entertainment, services, craftsmen):
Apart from the uses described in section 1.2 no other specific uses covered.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

sodium carbonate
**** Not translated ****

dipotassium peroxodisulphate
**** Not translated ****

- Substance: Pentapotassium bis(peroxymonosulphate) bis(sulphate)
DNEL

Systemic effects Long term Workers inhalation = 0,28 (mg/m³)
Systemic effects Short term Workers inhalation = 50 (mg/m³)
Systemic effects Short term Workers dermal = 80 (mg/kg bw/day)
Local effects Long term Workers inhalation = 0,28 (mg/m³)
Local effects Long term Workers dermal = 0,824 (mg/kg bw/day)
Local effects Short term Workers inhalation = 50 (mg/m³)
Local effects Short term Workers dermal = 0,449 (mg/kg bw/day)

PNEC

Sweet water = 0,022 (mg/l)
sediment Sweet water = 0,017 (mg/kg/sediment)
Sea water = 0,00222 (mg/l)
sediment Sea water = 0,00173 (mg/kg/sediment)
ground = 0,885 (mg/kg ground)

- Substance: Lithium carbonate
DNEL

Systemic effects Long term Workers inhalation = 2,34 (mg/m³)
Systemic effects Long term Workers dermal = 26,61 (mg/kg bw/day)
Systemic effects Short term Workers inhalation = 7,02 (mg/m³)
Systemic effects Short term Workers dermal = 100 (mg/kg bw/day)
Systemic effects Short term Consumers inhalation = 3,03 (mg/m³)
Systemic effects Short term Consumers dermal = 50 (mg/kg bw/day)

PNEC

Sweet water = 1,05 (mg/l)
sediment Sweet water = 4,09 (mg/kg/sediment)
Sea water = 0,11 (mg/l)
sediment Sea water = 0,41 (mg/kg/sediment)
ground = 0,8381 (mg/kg ground)

- Substance: dipotassium peroxodisulphate

DNEL

Systemic effects Long term Workers dermal = 9,5 (mg/kg bw/day)

Systemic effects Long term Consumers dermal = 4,8 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,47 (mg/kg bw/day)

Systemic effects Short term Consumers oral = 1,41 (mg/kg bw/day)

Local effects Long term Workers inhalation = 0,824 (mg/m³)

Local effects Long term Consumers inhalation = 0,421 (mg/m³)

PNEC

Sweet water = 0,518 (mg/l)

sediment Sweet water = 2,03 (mg/kg/sediment)

Sea water = 0,052 (mg/l)

sediment Sea water = 0,203 (mg/kg/sediment)

ground = 0,1 (mg/kg ground)

8.2. Exposure controls



Appropriate engineering controls:

Public domain (administration, education, entertainment, services, craftsmen):

Handle in accordance with good hygiene practices and safety. Wash hands before breaks and at the end of workday.

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:

Lithium carbonate

**** Not translated ****

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	WHITE POWDER	
Colour	WHITE POWDER	

Physical and chemical properties	Value	Determination method
Odour	Not determined	
Odour threshold	Not determined	
Melting point/freezing point	Not determined	
Boiling point or initial boiling point and boiling range	Not determined	
Flammability	Not determined	
Lower and upper explosion limit	Not determined	
Flash point	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
pH	Not determined	
Kinematic viscosity	Not determined	
Solubility	Not determined	
Water solubility	Not determined	
Partition coefficient n-octanol/water (log value)	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	Not determined	
Relative vapour density	Not determined	
Particle characteristics	Irrelevant	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

No data available.

9.2.2 Other safety characteristics

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Lithium carbonate
**** Not translated ****

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

Lithium carbonate
**** Not translated ****

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = 1.064,0 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

- (a) acute toxicity: Harmful product: do not ingest
- (b) skin corrosion/irritation: Corrosive product: causes severe skin burns and eye damage.
- (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 sensitisation: The product, if inhaled, can cause respiratory sensitization, and if brought into contact with skin can cause skin sensitization.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

Pentapotassium bis(peroxymonosulphate) bis(sulphate):

LD50 (rat) Oral (mg/kg body weight) = 500

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

sodium carbonate:

LD50 (rat) Oral (mg/kg body weight) = 2300

sodium carbonate

**** Not translated ****

Lithium carbonate:

LD50 (rat) Oral (mg/kg body weight) = 525

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 3000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 2,17

Lithium carbonate

**** Not translated ****

dipotassium peroxodisulphate:

LD50 (rat) Oral (mg/kg body weight) = 700

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

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information
12.1. Toxicity

Related to contained substances:

sodium carbonate:

C(E)L50 (mg/l) = 300

Lithium carbonate

**** Not translated ****

dipotassium peroxodisulphate:

C(E)L50 (mg/l) = 76,300003

The product is dangerous for the environment as it is toxic for aquatic organisms following acute exposure.

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

12.2. Persistence and degradability

Lithium carbonate

**** Not translated ****

12.3. Bioaccumulative potential

Lithium carbonate

**** Not translated ****

12.4. Mobility in soil

Lithium carbonate

**** Not translated ****

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

SECTION 13. 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 or ID number

ADR/RID/IMDG/ICAO-IATA: 3260



If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 kg per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 kg per package 20 Kg

14.2. UN proper shipping name

ADR/RID/IMDG: SOLIDO INORGANICO CORROSIVO, ACIDO, N.A.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), dipotassium peroxodisulphate, Disodium peroxide)

ADR/RID/IMDG: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), dipotassium peroxodisulphate, Disodium peroxide)

ICAO-IATA: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), dipotassium peroxodisulphate, Disodium peroxide)

14.3. Transport hazard class(es)

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

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

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 kg

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 and the provisions A.D.R national regulations. 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. Maritime transport in bulk according to IMO instruments

It is not intended to carry bulk

SECTION15. Regulatory information

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

D.Lgs. 3/2/1997 n. 52 (Classificazione, imballaggio ed etichettatura sostanze pericolose). D.Lgs 14/3/2003 n. 65 (Classificazione, imballaggio ed etichettatura preparati pericolosi). D.Lgs. 2/2/2002 n. 25 (Rischi derivanti da agenti chimici durante il lavoro). D.M. Lavoro 26/02/2004 (Limiti di esposizione professionali); D.M. 03/04/2007 (Attuazione

della direttiva n. 2006/8/CE). Regolamento (CE) n. 1907/2006 (REACH), Regolamento (CE) n. 1272/2008 (CLP), Regolamento (CE) n.790/2009. Regolamento (UE) n. 286/2011 (ATP 2 CLP)
. D.Lgs. 21 settembre 2005 n. 238 (Direttiva Seveso Ter). Regolamento (CE) n. 648/2004 del Parlamento europeo e del Consiglio, del 31 marzo 2004, relativo ai detergenti . Regolamento (CE) 453/2010 del Parlamento Europeo. DLgs 334/99 - Attività a rischio di incidenti rilevanti . DLgs 152/99 - Tutela della acque - scarichi idrici . DPR 203/88 - Emissioni in atmosfera . DLgs 22/97 - Norme sui rifiuti, sugli imballaggi e sui rifiuti di imballaggio.

Principali fonti bibliografiche:

ECDIN : Environmental Chemicals Data and Information Network- Joint Research Centre, Commission of the European Communities

SAX's Dangerous Properties of Industrial Materials - Eight Edition - Van Nostrand Reinold

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

CESIO - Classification and labelling of anionic, nonionic surfactants (1990)

Direttiva 67/548 29° Adeguamento

Direttiva 1999/45/CE

Direttiva 2001/60/CE

Regolamento (CE) 1272/2008 CLP

Regolamento (CE) 1907/2006 REACH

Regolamento (CE) 453/2010

Regolamento (CE) 1223/2009

Regolamento (CE) n. 648/2004 del Parlamento europeo e del Consiglio, del 31 marzo 2004

Regolamento (CE) n. 790/2009 (ATP 1 CLP) e (UE) n. 758/2013

Direttiva 76/768/CEE

The Merck Index Ed. 10

HADLING Chemical Safety

European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc/existing-chemicals/>

Sigma-Aldrich S.r.l

Sigma-Aldrich Co. LLC.

Gruppo BASF

Istituto Superiore di Sanità Viale Regina Elena 299 - 00161 - Roma (I)

A.C.G.I.H. – Documentary of the Threshold Limit Values

SIGMA-ALDRICH – Library of Chemical Safety Data

BOZZA MARUBINI M. et al. – Intossicazioni acute. Meccanismi, diagnosi e terapia. OEMF

BREThERICK – Bretherick's Handbook of Reactive Chemical Hazards

ECETOC – Monographs, Technical Reports, Special Reports, Documents, Joint Assessment of Commodity Chemicals

EPA – Chemical Emergency Preparedness Program – Interim Guidance – Chemical profiles

IARC – Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans

PATTY – Industrial Hygiene and Toxicology (3 Ed.)

SAX – Dangerous Properties of Industrial Materials (7 Ed.)

INRS – Fiche toxicologique (CD-ROM ed. 2002)

INRS – Réaction Chimiques Dangereuses

IPCS – Environmental Health Criteria

IPCS – Concise International Chemical Assessment Document

ITI – Toxic and Hazardous Industrial Chemical Safety Manual

IUCLID – International Uniform Chemical Information Database (CD-ROM)

KEITH & WALTERS – Compendium of Safety Data Sheets for Research and Industrial Chemicals

VCH

VERSCHUEREN K. – Handbook of Environmental Data on Organic Chemicals – 2 E(5.)

MERCK & Co. – The Merck Index

NIOSH/ RTECS – Registry of Toxic Effects of Chemical Substances

WEAST – Handbook of Chemistry and Physics

NFPA – Fire Protection Guide for Hazardous Materials, National Fire Protection Boston – National Fire Codes Vol 13

DUTCH ASSOCIATION OF SAFETY EXPERTS – Handling Chemicals Safety

REGULATION (EU) No 1357/2014 - waste:

HP8 - Corrosive

Substances in the Candidate List (REACH Article 59)

Based on available data, no SVHC substances are present

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H412 = Harmful to aquatic life with long lasting effects.

H319 = Causes serious eye irritation.

H272 = May intensify fire; oxidiser.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 = May cause respiratory irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

H302 - Harmful if swallowed. Classification procedure: Calculation method

H314 - Causes severe skin burns and eye damage. Classification procedure: Calculation method

H317 - May cause an allergic skin reaction. Classification procedure: Calculation method

H318 - Causes serious eye damage. Classification procedure: Calculation method

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Classification procedure: Calculation method

H412 - Harmful to aquatic life with long lasting effects. Classification procedure: Calculation method

The information shall relate to product knowledge at the date of this card. The product must not be used for purposes other than those specified.

The product falls into the category of cosmetics and safety assessment filed in the Company Headquarters at the disposal of the competent Authority, in accordance with legislative decree 126/97

The information contained in this material safety data sheet are based on our current knowledge and laws of EU and national, while the users' work conditions outside our knowledge and control; However cannot be exhaustive and must therefore be regarded as indicative. The product is used for purposes other than those listed. Liability of the user and always comply with hygiene, security and protection of the environment required by current laws.

This data sheet cancels and replaces any previous edition. ***