



Issued on 05/16/2012 - Rel. # 9 on 05/03/2017

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In conformity to Regulation (EU) 2015/830 - In conformity to Regulation (EC) 1907/2006

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : SILIFORCE
Product line: IlsaTec

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

Fertilizer
Sectors of use: Industrial Manufacturing (all)[SU3], Agriculture, forestry, fishery[SU1]
Product category: Fertilizers

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

ILSA spa - Via Quinta Strada 28, 36071 Arzignano (VI)
Tel. +39 0444 452020 Fax +39 0444 456864

Email: info@ilsagroup.com

1.4. Emergency telephone number

ILSA S.p.A. +39 0444 452020

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

Pictograms:
GHS05, GHS09

Hazard Class and Category Code(s):
Skin Corr. 1A, Aquatic Chronic 2

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.
H411 - Toxic to aquatic life with long lasting effects.

Corrosive product: causes severe skin burns and eye damage.
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, GHS09 - Danger

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.
H411 - Toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

Prevention

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

Response

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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 POISON CENTER/doctor/...

2.3. Other hazards

Substance/mixture does not meet the criteria for PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

The use of this chemical entails the obligation of " Risk Assessment " by the employer in accordance with the provisions of the Safety Regulation. Workers exposed to this chemical agent must not undergo health checks if the results of the risk assessment shows that , in relation to the type and amount of chemical agent and the mode and frequency of exposure to that agent , there is only a "moderate risk" to the health and safety of workers and the measures provided for in the same Decree . They are sufficient to reduce the risk .

SECTION3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Zinc chloride	> 1 <= 5%	Acute Tox. 4, H302; Skin Corr. 1B, H314; STOT SE 3, H335; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	231-592-0	7646-85-7	231-592-0	01-2119472 431-44

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: 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 POISON CENTER or a doctor.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

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 or in sewers, notify it to the the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.
Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves/protective clothing/eye protection/face protection.
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)

Agriculture, forestry, fishery: No additional information available.

Industrial Manufacturing (all): No additional information available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

No data available.

8.2. Exposure controls

Appropriate engineering controls:
Agriculture, forestry, fishery:
Use in accordance with good agricultural practices.

Industrial Manufacturing (all):
Ensure good ventilation of the work station.

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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	Characteristic, neutral	
Odour threshold	Not determined	
pH	< 2	
Melting point/freezing point	Not determined	
Initial boiling point and boiling range	Not determined	
Flash point	Not determined	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not determined	
Upper/lower flammability or explosive limits	Not determined	
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	1,150 kg/dm ³	
Solubility	100% in H ₂ O	
Water solubility	100%	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
Viscosity	Not determined	
Explosive properties	Not determined	
Oxidising properties	Not determined	

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 nitrides, caustic substances.

It can generate toxic gases to contact with mineral acids, aromatic and aliphatic amines, strong oxidants agents.

It can ignite in contact with oxidants mineral acids, elementary metals.

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 = 10.000,0 mg/kg

ATE(mix) dermal = no data available

ATE(mix) inhal = no data available

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

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

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage.

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

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

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

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

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.

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

SILIFORCE:

LD50 (rat) Oral (mg/kg body weight) = 1100

SECTION12. Ecological information

12.1. Toxicity

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

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

Substance/mixture does not meet the criteria for 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

ADR/RID/IMDG/ICAO-IATA: 1760

ADR exemption because compliance with the following characteristics:

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

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



14.2. UN proper shipping name

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

ICAO-IATA: CORROSIVE LIQUID, N.O.S.

14.3. Transport hazard class(es)

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

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

ADR: Tunnel restriction code : E

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

IMDG - EmS : F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is environmentally hazardous
IMDG: Marine polluting agent : Yes

14.6. Special precautions for user

The goods must be transported by vehicles authorized to the carriage of dangerous goods according to the current provisions of the Agreement A.D.R. and the national provisions applicable .
The goods must be in original packaging and in any case , in packaging made of materials resistant to their content and not likely to generate dangerous reactions . People loading and the unloading of dangerous goods must be trained on the risks from these substances and on all actions that must be taken in case of emergency situations.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Don't intended safety peel-mell.

SECTION15. Regulatory information

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

Italy: D.Lgs. 3/2/1997 n.52; D.Lgs 14/3/2003 n.65; D.Lgs. 09/04/2008 n.81; D.P.R. 01/08/2011 n.151; D.M. 03/04/2007; D.Lgs. 26/06/2015 n.105; D.Lgs. 15/02/2016 n.39

UE: REG 2006/1907/CE (REACH); REG 2008/1272/CE (CLP); REG 2009/790/CE; DIR 2006/8/CE; DIR 2012/18/UE; DIR 2014/27/UE

Seveso category:

E2 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:

HP8 - Corrosive

HP14 - Ecotoxic

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION16. Other information

16.1. Other information

Regulation references:

Directive 67/548 29 ° adaptation

Directive 1999/45 / EC

Directive 2001/60 / EC

Regulation EC 1907/2006

Regulation EC 1272/2008

The information in this Safety Data Sheet has been provided in good faith and in the belief that they are accurate, based on our knowledge of the product dating from the time of publication. This does not imply the acceptance of any liability by the ILSA Spa Company for the consequences related to its use or misuse in any particular circumstance.

It does in no way exempt the user of the product from observing all the legislative, administrative and regulatory



SAFETY DATA SHEET

SILIFORCE



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related to the product, hygiene and safety at work.

Document, established in accordance with the guidelines published by EFMA (European Fertilizer Manufacturers Association) and according to the Guide to the compilation of safety data sheets ECHA.

*** This sheet supersedes any previous edition.
