Issued on 12/11/2010 - Rel. # 3 on 09/13/2017

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

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

1.1. Product identifier

Product code : ILSAVIVIDA
Product line: ILSATEC

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

Fertilizers
Sectors of use: 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

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

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

Pictograms:
GHS05

Hazard Class and Category Code(s):
Skin Corr. 1B

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.

Corrosive product: causes severe skin burns and eye damage.

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
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/…

Contains: Urea phosphate

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
Urea phosphate	> 10 <= 20%	Skin Corr. 1B, H314 Acute toxicity M-factor = 10		4861-19-2	225-464-3	01-2119489460-34-0003

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. 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

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

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

SECTION7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves and protective clothing,eye protection and 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: Fertilizers.

SECTION8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:
Urea phosphate:
DNEL workers 2.92 mg/m3, general population 0.73mg/m3

- Substance: Urea phosphate
DNEL
Local effects Long term Workers inhalation = 2,92
Local effects Long term Consumers inhalation = 0,73 (mg/m3)

8.2. Exposure controls

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

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:
Urea phosphate:
Engineering Measures
Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures
8.2.1 Occupational exposure controls
- Respiratory protection Suitable respirator. Be sure to use an approved/certified or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Hand protection Wear protective gloves to prevent skin exposure.
- Eye protection Wear protective safety glasses.
- Skin protection Wear appropriate long-sleeved clothing to minimize skin contact.
- Hygiene measures
Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.
8.2.2 Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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	Not determined	
pH	2 - 3	
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)	Irrelevant	
Upper/lower flammability or explosive limits	Not determined	

Physical and chemical properties	Value	Determination method
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	1.15 - 1.25 kg/dm3	
Solubility	100% in H2O	
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

Related to contained substances - Urea phosphate: No specific test data related to reactivity available for this product or its ingredients.

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 = no data available
ATE(mix) dermal = no data available

ATE(mix) inhal = no data available

(a) acute toxicity: Urea phosphate: - Acute effects
Product/ingredient name Test Species Dose
Urea Phosphate LD50, oral Rat 2600 mg/kg

Ingestion: Causes burns to the gastrointestinal tract. Symptoms may include severe burns of the mouth, throat and stomach. Ingestion of large quantities may cause gastrointestinal irritation, vomiting and diarrhea.

Inhalation: Causes burns to the respiratory tract. Symptoms may include irritation to the nose, throat and upper respiratory tract.
(b) skin corrosion/irritationCorrosive product: causes severe skin burns and eye damage.
Urea phosphate: Skin contact: Causes burns to skin. May cause redness, pain, blisters and severe skin burns.
(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage.
Urea phosphate: Eyes contact: Causes burns to eyes. Symptoms may include redness, pain, blurred vision, eye burns and permanent eye damage.
(d) respiratory or skin sensitization: Urea phosphate: N/A
(e) germ cell mutagenicity: Urea phosphate: Mutagenicity: Negative in Ames tests.
(f) carcinogenicity: Urea phosphate: Carcinogenicity: This product does not contain any substances that are considered by IARC, NTP, OSHA, EU or ACGIH to be “probable” or “suspected” human carcinogens.
(g) reproductive toxicity: Urea phosphate: Reproductive toxicity: According to CLP Urea phosphate will dissociate directly into phosphoric acid and urea in aqueous environment.
(h) specific target organ toxicity (STOT) single exposure: Urea phosphate: Specific target organ toxicity (single exposure): Not applicable.
(i) specific target organ toxicity (STOT) repeated exposureUrea phosphate: oral
NOAEL (rat): 250 - 1 500 mg/kg bw/day
NOAEL (rat): 45 000 ppm
NOAEL (mouse): 45 000 ppm

Specific target organ toxicity (repeated exposure): Not applicable.
(j) aspiration hazard: Urea phosphate: Aspiration hazard: Not applicable.

Related to contained substances:
Urea phosphate:
- Other effects
Over exposure signs/symptoms:
Inhalation: Inhalation of product may aggravate: respiratory tract irritation, coughing.
Target organs: No specific data.
Toxicokinetics, metabolism and distribution
Urea phosphate is directly dissociated into urea and phosphoric acid in aqueous environment. Therefore, all data are based on studies of urea and phosphoric acid individually as intrinsic properties can be mostly read across from urea and phosphoric acid. Apart from pH effects, direct phosphate effects may also occur, therefore these data can be supported by e.g. data on calcium dihydrogenorthophosphate. Based on all data available, for urea phospate 50% for oral absorption, 10 -50% for dermal absorption (higher due to skin corrosion), and 100% worst case assumption for inhalation absorption is used for risk assessment purposes.
LD50 (rat) Oral (mg/kg body weight) = 2600

SECTION12. Ecological information

12.1. Toxicity

Related to contained substances:
Urea phosphate:
Short–term toxicity to fish
LC50 (4 days) 9.1 g/L
LC50 (72 h) 12.1 g/L
LC50 (48 h) 17.86 g/L
LC50 (24 h) 18.6 g/L

Short–term toxicity to aquatic invertebrates
EC50 (48 h) 100 mg/L
EC50 (24 h) 10 g/L
NOEC (48 h) 56 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50 (72 h) 100 mg/L
NOEC (72 h) 100 mg/L

Toxicity to microorganisms
EC50 (3 h) 100 mg/L
NOEC (3 h) 100 mg/L
C(E)L50 (mg/l) = 0,0121 Acute toxicity M-factor = 10
NOEC (mg/l) = 100

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

12.2. Persistence and degradability

Related to contained substances:
Urea phosphate:
Miscible in water.

Urea phosphate will dissociate directly into phosphoric acid and urea in aqueous environment.

12.3. Bioaccumulative potential

Related to contained substances:
Urea phosphate:
Adsorption/desorption
R Koc
0.037 - 0.064

12.4. Mobility in soil

Related to contained substances:
Urea phosphate:
Urea phosphate will dissociate directly into phosphoric acid and urea in aqueous environment and that is why bioaccumulation is not relevant for the highly soluble substances urea and phosphoric acid.

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: 1759

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

14.2. UN proper shipping name

ADR/RID/IMDG: CORROSIVE SOLID, N.O.S. (Urea phosphate)
ICAO-IATA: CORROSIVE SOLID, N.O.S. (Urea phosphate)

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 : 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 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
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

Classification based on data of all mixture components

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 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.