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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 : ILSASOL 20.20.20
Product line: ILSACOM

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

Fertilizers
Sectors of use: Agriculture, forestry, fishery[SU1]

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: None

Hazard Class and Category Code(s): Not hazardous.

Hazard statement Code(s): Not hazardous.

2.2. Label elements

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

Pictogram, Signal Word Code(s): None

Hazard statement Code(s): Not hazardous.

Supplemental Hazard statement Code(s):
EUH210 - Safety data sheet available on request.

Precautionary statements: None in particular.

2.3. Other hazards

Substance/mixture does not meet the criteria for 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	Classification	Index	CAS	EINECS	REACH
Potassium Nitrate	> 30 <= 50%	Ox. Sol. 3, H272		7757-79-1	231-818-8	01-2119488 224-35-000 7
Citric acid	> 1 <= 5%	Eye Irrit. 2, H319		77-92-9	201-069-1	

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 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

6.1.2 For emergency responders:

Wear 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:

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)

Agriculture, forestry, fishery:
Fertilizers.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Citric acid:

No exposure guidelines have been established.

ACGIH, NIOSH and OSHA have not developed exposure limits for this product.

The exposure limits given below are for particulates not otherwise classified:

ACGIH: 10 mg/m³ TWA (Total Inhalable fraction); 3 mg/m³ TWA (Respirable fraction)

OSHA: 15 mg/m³ TWA (Total dust); 5 mg/m³ TWA (Respirable Fraction)

- Substance: Potassium Nitrate

DNEL

Systemic effects Long term Workers inhalation = 36,7 (mg/m³)

Systemic effects Long term Workers dermal = 20,8 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 10,9 (mg/m³)

Systemic effects Long term Consumers dermal = 12,5 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 12,5 (mg/kg bw/day)

PNEC

Sweet water = 0,45 (mg/l)

Sea water = 0,045 (mg/l)

intermittent emissions = 4,5 (mg/l)

STP = 18 (mg/l)

8.2. Exposure controls

Appropriate engineering controls - Agriculture, forestry, fishery:

Use in accordance with good agricultural practices.

Individual protection measures:

(a) Eye / face protection

Not needed for normal use.

(b) Skin protection

(i) Hand protection

Not needed for normal use.

(ii) Other

Wear normal work clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards
Use according to good agricultural practices.

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	Polvere	
Odour	Caratteristico	
Odour threshold	Not determined	
pH	5,3	G.U. 19/09/2002 Nr. 220 D.M. 17/06/2002 7
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	Not determined	ILSA S.p.A. IDL 1.2.1 liquid fertilizers
Solubility	Not determined	
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 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 toxicological effects

ATE(mix) oral = no data available
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 based 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 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:

Potassium Nitrate:

LD50 (rat) Oral (mg/kg body weight) = 2000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

Citric acid:

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 3000 mg/kg [Rat].

Chronic Effects on Humans: May cause damage to the following organs: teeth.

Other Toxic Effects on Humans:

Hazardous in case of inhalation (lung irritant).

Slightly hazardous in case of skin contact (irritant, sensitizer), of ingestion.

Special Remarks on Toxicity to Animals: LDL[Rabbit] - Route: oral; Dose: 7000mg/kg

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: Causes mild to moderate skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Eyes: Causes moderate to severe eye irritation and possible injury.

Ingestion: May cause gastrointestinal (digestive) tract irritation with nausea, vomiting, diarrhea. Excessive intake

may cause erosion of teeth and hypocalcemia (calcium deficiency in blood). May affect behavior/central nervous system (tremor, convulsions, muscle contraction or spasticity).

Inhalation: Causes moderate respiratory tract and mucous membrane irritation.

Chronic Potential Health Effects:

Frequent intake of citrated beverages may cause erosion of dental enamel and irritation of mucous membranes.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Citric acid:

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

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

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. Operate according to local or national regulations

SECTION 14. 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

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

15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

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 Fact 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.



**FACTSHEET
SAFETY DATA
ILSASOL 20.20.20**



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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.
