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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 : TIOFERTIL
Product line: Bioilsa

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

Fertilizer
Sectors of use: Agriculture, forestry, fishery[SU1], Public domain (administration, education, entertainment, services, craftsmen)[SU22]
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:
GHS07

Hazard Class and Category Code(s):
Skin Irrit. 2

Hazard statement Code(s):
H315 - Causes skin irritation.

If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

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2.2. Label elements

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

Pictogram, Signal Word Code(s):
GHS07 - Warning

Hazard statement Code(s):
H315 - Causes skin irritation.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:
Prevention
P280 - Wear protective gloves/protective clothing/eye protection/face protection.



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
Sulfur	> 10 <= 20%	Skin Irrit. 2, H315	016-094-00-1	7704-34-9	231-722-6	

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): 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 skin irritation 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

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

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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:
Fertilizers.

Public domain (administration, education, entertainment, services, craftsmen):
No further information available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Sulfur:

Information not available.

8.2. Exposure controls

Appropriate engineering controls:

Agriculture, forestry, fishery:

Use in accordance with good agricultural practices.

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

Use in accordance with good engineering practices.

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
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:

Sulfur:

As the use of adequate technical equipment must always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration or bad air vent. If these steps do not keep the concentration of the product below the exposure limit values in the workplace protection should be worn to respiratory system. While using the product label of danger for details. When selecting personal protective equipment, if necessary, request advice from your suppliers of substances

HAND PROTECTION

Protect your hands with work gloves category II (ref. Directive 89/686 / EEC and standard EN 374) such as PVC, neoprene, nitrile or equivalent. For the final choice of work glove material must be considered: degradation, breakage times and permeation. In the case of preparations the resistance of protective gloves should be checked before use, as it expected

The gloves have a limit depends on the duration of exposure.

EYE PROTECTION

Airtight goggles (ref. Standard EN 166).

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use category II (ref. Directive 89/686 / EEC and standard EN 344). Wash with soap and water after removing protective clothing

RESPIRATORY PROTECTION

In case of exceeding the threshold value of one or more of the substances in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection, wear a filter class P2 facemask.

The use of respiratory protective equipment, such as masks with organic vapor and dust / mist, it is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited

In the case where the substance in question is odorless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, or where the exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear a compressed air breathing apparatus open circuit (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

Provide for a system for eyewash and emergency shower.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Pellet	
Odour	Not determined	
Odour threshold	Not determined	
pH	4,5 - 5,5	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)	Irrelevant	
Upper/lower flammability or explosive limits	Not determined	
Vapour pressure	Not determined	

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Physical and chemical properties	Value	Determination method
Vapour density	Not determined	
Relative density	Not determined	
Solubility	Partial in H ₂ O	
Water solubility	Partial	
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.

SECTION 10. Stability and reactivity

10.1. Reactivity

Related to contained substances:

Sulfur:

There are no particular risks of reaction if the product is stored and applied as specified in paragraph 7.

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 oxidants mineral acids, elementary metals.

It can ignite in contact with elementary metals, organic peroxides, organic water peroxides.

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: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
- (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:

Sulfur:

Acute effects: contact with skin may cause irritation, erythema, edema, dryness and chapped skin. Inhalation vapors may cause moderate irritation of the upper respiratory tract. Ingestion may cause health problems, including stomach pain and sting, nausea and vomiting.

Acute toxicity: LD50 / oral / rat: > 2,000 mg / kg p.a. Sulfur

LD50 / dermal / rat: > 2,000 mg / kg p.a. Sulfur

LD50 / inhalation / rat / 4h: > 5.77 ± 0,35 mg / l p.a. Sulfur

Primary skin irritation / rabbit: irritating to rabbit skin

Primary / rabbit eye irritation: irritating to rabbit eyes. Irritating to the mucous membrane rabbit

Awareness raising: the sulfur powder has power irritating to skin

Subacute-chronic toxicity: n.d.

Experience with humans: n.d.

Additional information: n.d.

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

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 5,77

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Sulfur:

Invertebrates: CE50 48-h, daphnia (*Daphnia magna*) > 665 mg / l

Algae IC50 72-h, (*Ankistrodesmus bibrarianus*) > 232 mg / l

Birds LC50 8 days in diet, quail (northern bobwhite) > 5,000 mg / kg

C(E)L50 (mg/l) = 665

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

12.2. Persistence and degradability

Related to contained substances:

Sulfur:

The active substance sulfur is slowly degraded in soil oxidation to sulphate. Shows no leaching phenomena in groundwater.

12.3. Bioaccumulative potential

Related to contained substances:

Sulfur:

The active substance sulfur, is rapidly eliminated.

12.4. Mobility in soil

Related to contained substances:

Sulfur:

The sulfur is not mobile.

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

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

Related to contained substances:

Sulfur:

Seveso category.

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation (EC) No. 1907/2006

Product

None

Substances in Candidate List (Art. 59 REACH).

None

Substances subject to authorization (Annex XIV REACH).

None.

Sanitary checks

Workers exposed to this chemical agent to health must undergo health checks according to the provisions of Article. 41 of Legislative Decree no. 81 of April 9, 2008 unless the risk for the safety and health of the worker has been assessed irrelevant, according to art. 224 paragraph 2.

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:

HP4 - Irritant — skin irritation and eye damage

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.