



ACTIOLIVO

Safety data sheet

Pursuant to art. 32
of the Regulation (EC) No 1907/2006 (REACH) as amended

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

1.1. Product identifier

Product ID: 0027205/19
Trade name: ACTIOLIVO

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

Description/Use: NP organic fertilizer (Legislative Decree 75/2010)

Identified uses	Industrial	Professional	Consumption
FOR USE IN AGRICULTURE	-	✓	-

1.3. Details of the supplier of the safety data sheet

Company name: FERTILEVA S.r.l.
Address: Strada comunale 14 Madonna delle Grazie Caione
Place and State: 74014 LATERZA TA Italy
tel. +39 - 099 6411772
fax +39 - 099 9915131

e-mail of the competent person,

competent person responsible for the safety data sheet: info@fertileva.it

1.4. Emergency telephone number

Emergency information service

Poison Centre - University of Torino - Tel. 011/637637
Poison Centre - University of Rome, Policlinico Umberto I - Tel. 06/490663
Poison Centre - Osp. Maggiore - Unità operativa di Tossicologia - Bologna - Tel. 051/382984235
Poison Centre - Ospedali Riuniti Cardarelli (c/o Usl 40) - Naples - Tel. 081/5453333
Poison Centre - Ospedale di Niguarda - Milano - Tel. 02/66101029

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This product is not classified as dangerous under Regulation (EC) 1272/2008 (CLP) (as amended).
Hazards classification and identification:

2.2. Label elements

Pictogram: --

Signal word: --

ACTIOLIVO

Hazard statement:

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Precautionary statement:

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2.3. Other hazards

Based on available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

No relevant data.

3.2. Mixtures

It contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
MEAT AND BONE MEAL		
CAS -	94 ≤ x < 100	
CE -		
INDEX -		

The full text of the hazard statements (H) is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

Not specifically necessary. In any case, compliance with the rules of good industrial hygiene is recommended.

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

No specific information on symptoms and effects caused by the product is known.

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

No information available.

SECTION 5. Firefighting measures



ACTIOLIVO

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

The extinguishing media are the traditional ones: carbon dioxide, foam, dry extinguishing powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA

No one in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDOUS COMBUSTION PRODUCTS

Avoid inhaling combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Cool the containers with water jets to prevent product decomposition and development of substances potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water which must not be discharged into the sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to regulations in force.

EQUIPMENT

Traditional protective clothing for firefighting, such as open-circuit self-contained breathing apparatus (EN 137), fire retardant suit (EN 469), fire retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of exposure to vapors or dust dispersed in the air, adopt respiratory protection. These indications are valid both for workers in charge of processing and for emergency interventions.

6.2. Environmental precautions

Avoid runoff and contact with soil, waterways, drains and sewers.

6.3. Methods and material for containment and cleaning up

Dike with earth or inert material. Collect most of the material and eliminate the residue with water jets. The disposal of contaminated material must be carried out in accordance with the provisions under section 13.

6.4. Reference to other sections

Any information regarding personal protection and disposal is given under sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handle the product after checking all the other sections of this safety data sheet. Avoid the dispersion of the product in the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep the containers away from any incompatible materials, after checking the section 10.

7.3. Specific end uses

ACTIOLIVO

No data available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

No information available.

8.2. Exposure controls

Observe the usual safety measures when handling chemicals.

HAND PROTECTION
Unnecessary.

SKIN PROTECTION
Unnecessary.

EYE PROTECTION
Unnecessary.

RESPIRATORY PROTECTION
Unnecessary, unless otherwise indicated in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS

Manufacturing processes emissions, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid, pelleted
Colour	brown
Odour	characteristic
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point	No data available
Boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower flammability limit	No data available
Upper flammability limit	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available

ACTIOLIVO

Oxidising properties

No data available

9.2. Other information

There is no additional information.

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage no dangerous reactions are foreseeable.

10.4. Conditions to avoid

There are no specific conditions known which must be avoided. However, follow the usual chemical safety precautions.

10.5. Incompatible materials

There is no additional information.

10.6. Hazardous decomposition products

There is no additional information.

SECTION 11. Toxicological information

There are no known episodes of health effects due to exposure to the product. In any case, it is recommended to operate in compliance with the rules of good industrial hygiene.

11.1. Information on toxicological effects

Metabolism, kinetics, mode of action and other information

There is no additional information

Information on likely routes of exposure

There is no additional information

Delayed and immediate effects and chronic effects from short and long-term exposure

There is no additional information

ACTIOLIVO

Interactive effects

There is no additional information

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no relevant component)
LD50 (Oral) of the mixture:
Not classified (no relevant component)
LD50 (Cutaneous) of the mixture:
Not classified (no relevant component)

SKIN CORROSION/IRRITATION

It does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE/EYE IRRITATION

It does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

It does not meet the classification criteria for this hazard class

GERM CELL MUTAGENIC

It does not meet the classification criteria for this hazard class

CARCINOGENICITY

It does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICANT

It does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) – SINGLE EXPOSURE

It does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) – REPEATED EXPOSURE

It does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

It does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

Use applying good practices, avoid dispersal of the product in the environment. Notify the competent authorities if the product has reached watercourses or if it has contaminated the soil or vegetation.

ACTIOLIVO

12.1. Toxicity

No data available

12.2. Process of 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

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

12.6. Other adverse effects

No data available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Recycle if possible. Product residues as such are to be considered non-hazardous special waste. Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local regulations. For solid residues, consider the possibility of disposal in an authorized landfill.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not considered dangerous pursuant to the provisions in force on road (A.D.R.), rail (RID), sea (IMDG Code) and air (IATA) transport of dangerous goods.

14.1. UN number

Not relevant

14.2. UN proper shipping name

Not relevant

14.3. Transport hazard classes

Not relevant



ACTIOLIVO

14.4. Packing group

Not relevant

14.5. Environmental hazards

Not relevant

14.6. Special precautions for user

Not relevant

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18 / EC: None

Restrictions regarding contained product or substances according to Annex XVII Regulation (EC) 1907/2006

None

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentage greater than 0.1%.

List of substances subject to authorisation (REACH, Annex XIV)

None

Substances subject to export notification obligation according to Reg. (EC) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

No data available

ACTIOLIVO

15.2. Chemical Safety Assessment

Chemical safety assessment for substances in this mixture hasn't been carried out.

SECTION 16. Other information

LEGEND:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration producing the desired effect in 50% of the tested population
- CE NUMBER: Identification number ESIS (The European Chemical Substances Information System)
- CLP: Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures
- DNEL: Derived No-Effect Level
- EmS: Emergency Schedule
- GHS: "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
- IATA DGR: Dangerous Goods Regulations (DGR) for the air transport (IATA)
- IC50: Concentration of an inhibitor producing the desired effect in 50% of the tested population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in the Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, Bioaccumulative and Toxic according to REACH
- PEC: Predictable Environmental Concentration
- PEL: Permissible Exposure Limit
- PNEC: Predicted No Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals CE 1907/2006
- RID: Regulation concerning the International Carriage of Dangerous Goods by rail
- TLV: Threshold Limit Value
- TLV CEILING: Concentration in air that should not be exceeded during any part of the working exposure.
- TWA STEL: Short-term Exposure Limit
- TWA: Time-weighted Average Limit
- VOC: Volatile Organic Compounds
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water Endangerment Class (Germany).

KEY LITERATURE REFERENCES:

1. Regulation (EC) No. 1907/2006 of the European Parliament (REACH)
 2. Regulation (EC) No. 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) No. 790/2009 of the European Parliament (I Atp. CLP)
 4. Regulation (EU) No. 2015/830 of the European Parliament
 5. Regulation (EU) No. 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) No. 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) No. 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) No. 944/2013 of the European Parliament (V Atp. CLP)
 9. Regulation (EU) No. 605/2014 of the European Parliament (VI Atp. CLP)
 10. Regulation (EU) No. 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Regulation (EU) No. 2016/918 of the European Parliament (VIII Atp. CLP)
 12. Regulation (EU) No. 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) No. 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - Website IFA GESTIS
 - Website Agency ECHA
 - Chemical Safety's SDS database – Ministry of Health and National Institute of Health



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ACTIOLIVO

Page no. 10/

10

Disclaimer:

The information in this document is based on the present state of our knowledge. The user must ensure the suitability and completeness of the information in relation to the specific use of the product. This document does not represent any guarantee of the properties of the product. Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use. It is necessary to provide adequate training for the employees who use chemical substances.