

1729200

Reviewed on: 28/04/2016  
Printing date: 28/04/2016

## 01 Identification of the substance/mixture and of the company/undertaking

- Product identifier
- Trade name:  
ORRIS ENZYMATIC 20% IRONE
- Article number:  
F3507
- CAS Number:  
8002-73-1
- EC number:  
289-955-4
- No CAS EINECS:  
90045-90-2
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
BIOLANDES                      TEL : 33.5.58.51.00.00  
40420 LE SEN                    email: fds@biolandes.com  
FRANCE  
Emergency telephone number:  
FR-ORFILA (INRS): +33(0)1 45 42 59 59

## 02 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008  
Void
- Label elements
- Labelling according to Regulation (EC) No 1272/2008  
Void
- Signal word  
Void
- Hazard statements  
Void

## 03 Composition/information on ingredients

- Chemical characterization: Substances  

<b>CAS No.</b>	<b>Description</b>
8002-73-1	Iris pallida ext
- Identification number(s)
- EC number:  
289-955-4
- Chemical characterization: Mixtures
- Dangerous components:

## 04 First aid measures

- Description of first aid measures
- After inhalation:  
Supply fresh air and to be sure call for a doctor.
- After skin contact:  
If skin irritation continues, consult a doctor.
- After eye contact:  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:  
Seek immediate medical advice.

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**05 Firefighting measures**

- Extinguishing media
- Suitable extinguishing agents:  
CO2, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:  
Water with full jet
- Advice for firefighters
- Protective equipment:  
Do not inhale explosion gases or combustion gases.
- Additional information  
Cool endangered receptacles with water spray.

**06 Accidental release measures**

- Personal precautions, protective equipment and emergency procedures  
Keep away from ignition sources.
- Environmental precautions:  
Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up:  
Dispose of the material collected according to regulations.

**07 Handling and storage**

- Handling:  
Precautions for safe handling  
Store in cool, dry place in tightly closed receptacles.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Storage:  
Requirements to be met by storerooms and receptacles:  
Store in a cool location.
- Further information about storage conditions:  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Store receptacle in a well ventilated area.

**08 Exposure controls/personal protection**

- Control parameters
  - Ingredients with limit values that require monitoring at the workplace:  
Not required.
- | CAS No. | Designation of material | % | Type | Value | Unit |
|---------|-------------------------|---|------|-------|------|
|         |                         |   |      |       |      |
- Not required.
- Additional information:  
The lists valid during the making were used as basis.
  - Exposure controls
  - Personal protective equipment:
  - General protective and hygienic measures:  
The usual precautionary measures are to be adhered to when handling chemicals.
  - Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

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- Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses

**09 Physical and chemical properties**
**Information on basic physical and chemical properties**
**General Information**
**Appearance:**

<b>Form:</b>	fluid
<b>Colour:</b>	orange-yellow
<b>Odour:</b>	woody
<b>Odour threshold:</b>	Not determined.

**Change in condition**

<b>Boiling point/Boiling range:</b>	Not determined.
<b>Flash point:</b>	> 100 °C NFT 60-103 CC
<b>Flammability (solid, gaseous):</b>	Not determined.
<b>Self-igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Not determined.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.

**10 Stability and reactivity**

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:  
Not determined.
- Possibility of hazardous reactions  
No dangerous reactions known.
- Conditions to avoid  
No further relevant information available.
- Hazardous decomposition products:  
Not determined.

**11 Toxicological information**

- Information on toxicological effects
- Acute toxicity:  
Not determined.
- Additional toxicological information:  
The substance is not subject to classification according to the latest version of the EU lists.

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**12 Ecological information**

- Toxicity
- Aquatic toxicity:  
No further relevant information available.
- Persistence and degradability  
Not determined.
- Behaviour in environmental systems:  
Not determined.
- Mobility in soil  
No further relevant information available.
- Ecotoxicological effects:  
Not determined.
- Additional ecological information:
- General notes:  
Do not allow product to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- PBT:  
Not applicable.
- vPvB:  
Not applicable.
- Other adverse effects  
No further relevant information available.

**13 Disposal considerations**

- Waste treatment methods
- Recommendation  
Must be specially treated adhering to official regulations.
- Uncleaned packaging:
- Recommendation:  
Disposal must be made according to official regulations.

**14 Transport information**

- UN-Number  
**ADR** Void  
**IMDG** Void  
**IATA** Void
- UN proper shipping name  
**ADR** Void  
**IMDG** Void  
**IATA** Void
- Transport hazard class(es)  
**ADR**  
**Class** Void  
**IMDG**  
**Class** Void  
**IATA**  
**Class** Void
- Packing group  
**ADR** Void  
**IMDG** Void  
**IATA** Void
- Environmental hazards:  
Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Not applicable.
- Transport/Additional information:

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Not applicable.

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### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Waterhazard class:  
Generally not hazardous for water. Assessment by list
- Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document. The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative