

3/SECTION 1: Identification**1.1. Identification**

Product form : Mixture
Product name : JULIETTA

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Plant protection product
Restrictions on use : Any use other than recommended

1.3. Supplier**Supplier**

AGRAUXINE
7 avenue du Grand Périgné
Beaucouzé, 49070
France
T + 33 (0)2 41 77 80 77
fds-agx@agrauxine.lesaffre.com

Distributor

Agrauxine Corp.
375 Bonnewitz Avenue
Van Wert, Ohio 45891
United States
T +1 419-232-2461
fds-agx@agrauxine.lesaffre.com

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number	Comment
USA	CHEMTREC		+1 800-424-9300	

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Not classified

2.2. GHS Label elements, including precautionary statements**GHS US labeling**

No labeling applicable

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None to our knowledge.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients**3.1. Substances**

Not applicable

JULIETTA

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

3.2. Mixtures

Comments : Water dispersible granule (WG) product containing dried living yeast cells of *Saccharomyces cerevisiae* strain LAS02 (Active ingredient, 1.10^{13} cfu/kg)

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person away from the contaminated area. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with soapy water. Rinse with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. If irritation persists, consult an eye specialist.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Since microorganisms can cause opportunistic infection in severely immunocompromised persons, the product should not be used by persons suffering from immunodeficiency or being treated with immunosuppressive agents.

Symptoms/effects after skin contact : Sensitive people may develop an allergic reaction.

4.3. Immediate medical attention and special treatment, if necessary

Saccharomyces cerevisiae LAS02 is sensitive to fluconazole, itraconazole and amphotericine B.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO₂). Sulphur dioxide (as SO₂). Nitrogen oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Do not breathe fumes.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate spillage area. Avoid dust production.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust.

6.1.2. For emergency responders

Emergency procedures : Do not attempt to take action without suitable protective equipment.

JULIETTA

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.2. Environmental precautions

Contain the spilled material by bunding. Do not discharge the product into the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Vacuum up the product. Avoid dust production.
Other information : Collect all waste in suitable and labeled containers and dispose according to local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see item 8. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust. Observe the label precautions. Wear recommended personal protective equipment.
Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in dry, cool, well-ventilated area. Protect against frost. Protect from moisture. Protect from sunlight.
Storage temperature : 20 °C +/- 2 °C
Special rules on packaging : Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

JULIETTA

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

Safety glasses

Skin and body protection:

Protective clothing

Respiratory protection:

Dust mask with filter type P3

JULIETTA

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Wettable granule.
Color	: Beige
Odor	: Yeast
Odor threshold	: Not applicable
pH	: 5.8 (1% aqueous dispersion)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: No data available
Relative density	: 0.55 – 0.95
Density	: 0.68 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: 200 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Lower explosive limit (LEL): 60 g/m ³
Explosive properties	: Not explosive.
Oxidizing properties	: Non oxidizing.

9.2. Other information

Bulk density : 0.72 g/cm³ attained after compacting

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Moisture. Freezing. Exposure to low temperatures. High temperature.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

JULIETTA

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: 5.8 (1% aqueous dispersion)
Serious eye damage/irritation	: Not classified pH: 5.8 (1% aqueous dispersion)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: Since microorganisms can cause opportunistic infection in severely immunocompromised persons, the product should not be used by persons suffering from immunodeficiency or being treated with immunosuppressive agents.
Symptoms/effects after skin contact	: Sensitive people may develop an allergic reaction.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: To our knowledge, the product does not present any particular risk, under normal conditions of use.
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12.2. Persistence and degradability

JULIETTA

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not potentially bioaccumulable.
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Do not allow into drains or water courses. Dispose of in accordance with relevant local regulations.
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JULIETTA

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
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15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

JULIETTA

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National regulations

JULIETTA

All components of this product are present and listed as Active, or excluded from the directory, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

SARA 313

This product contains no chemicals in excess of the applicable de minimis concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Table 372.65).

All chemical substances in this product are not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

All chemical substances in this product are not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.3. US State regulations

JULIETTA

U.S. - California - Proposition 65 - Other information

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources

: SDS of suppliers.

Other information

: Safety data sheet established by : LISAM TELEGIS

17 rue de la Couture F-60400 Passel

www.lisam-telegis.com.

Abbreviations and acronyms

DOT	Department of Transportation (DOT)
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
TDG	Transportation of Dangerous Goods

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.