

Safety Data Sheet

section

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

1.1 Product identifier

Trade name/designation : JULIETTA
 UFI : 36A3-60YF-N006-984Q

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

Relevant identified uses : For professional use only.
 Plant protection products.
 Uses advised against : Any other use.

1.3 Details of the supplier of the safety data sheet

Supplier : **Name:** Agrauxine Corp.
Street: 375 Bonnewitz Avenue
Postal code/City: Van Wert, Ohio 45891
Country: United States
Telephone: T +1 419-232-2461
Website: www.agrauxine.us
E-mail: fds-agx@agrauxine.lesaffre.com

1.4 Emergency Telephone Number

U.S.:

For medical emergencies, call the poison control center at 1-800-222-1222. For non-emergency information on this product, call National Pesticide Information Center (NPIC) at 1-800-858-7378 or consult the website <http://npic.orst.edu>.

section

2 Hazards identification

2.1 Classification of the substance or mixture

Hazards identification:

H302	Acute Tox. 4 ORAL	Harmful if swallowed.
H312	Acute Tox. 4 DERMAL	Harmful in contact with skin.
H320	Eye Irrit. 2B	Causes eye irritation.
H332	Acute Tox. 4 INHALATION	Harmful if inhaled.

2.2 Label elements

Hazard pictograms



Signal word

Warning

Hazard Statements

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H320 Causes eye irritation.
- H332 Harmful if inhaled.

2.3 Other hazards

Adverse human health effects and symptoms:

Microorganisms may have the potential to cause sensitisation reactions.
 The product must not be used by people suffering from immunodeficiency or who are being immunosuppressive agents.

3 Composition/information on ingredients

3.2 Mixtures

In accordance with the product knowledge, no nanomaterials have been identified.

Substance	Concentration (%)	Classification
Saccharomyces cerevisiae Strain LAS02	93.22% ≤ C ≤ 98.98%	Not classified

Remark

Product in water-dispersible granules (WG) containing dried live yeast cells Saccharomyces cerevisiae strain LAS02 (active ingredient, 1.1013 cfu/kg).

4 First aid measures

4.1 Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice.
 Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Following inhalation:

Move person to fresh air.
 If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
 Call a poison control center or doctor for treatment advice.

Following skin contact:

Take off contaminated clothing.
 Rinse skin immediately with plenty of water for 15-20 minutes.
 Call a poison control center or doctor for treatment advice.

Following eye contact:

Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
 Call a poison control center or doctor for treatment advice.

Following ingestion:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.
 Do not induce vomiting unless told to by a poison control center or doctor.
 Do not give anything by mouth to an unconscious person.

Self-protection of the first aider:

No special measures are necessary.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

Notes for the doctor:

Treat symptomatically.

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

section **5** **Firefighting measures**

5.1 **Extinguishing media**

Suitable extinguishing media:

All extinguishing agents can be used.

Unsuitable extinguishing media:

None.

5.2 **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

5.3 **Advice for firefighters**

Do not breathe fumes.

Dike and contain extinguishing fluids.

Do not intervene without suitable protective equipment.

Full body protection.

Self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

section **6** **Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures**

Ventilate spill area. Avoid dust generation.

Keep unnecessary personnel away. Intervention limited to qualified personnel wearing appropriate protective equipment.

Avoid contact with skin and eyes. Do not breathe dust.

Do not intervene without suitable protective equipment.

6.2 **Environmental precautions**

Ensure that waste is collected and contained.

6.3 **Methods and material for containment and cleaning up**

Mechanically pick up the product by suction and/or sweeping.

Collect in closed and suitable containers for disposal.

Treat the recovered material as prescribed in the section on waste disposal.

6.4 **Reference to other sections**

Safe handling: see section 7.

Disposal: see section 13.

Personal protection equipment: see section 8.

Additional information

Not available

section **7** Handling and Storage

7.1 Precautions for safe handling

PROTECTIVE MEASURES:

Ensure good ventilation of work area.

Avoid breathing spray mist and avoid contact with eyes or clothing.

Observe label precautions.

Remove clothing/PPE immediately if the product gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Advices on general occupational hygiene:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before reuse.

Handle in accordance with good industrial hygiene and safety practices.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of reach of children.

Keep container tightly closed in a dry, cool, and well-ventilated place.

Protect from frost. Protect from moisture. Protect from sunlight.

Keep container in upright position in order to prevent leakage.

Keep only in original container.

Requirements for storage rooms and vessels:

Do not store the product in a room where the temperature may exceed 20°C.

Advice on joint storage:

Do not contaminate water, food, or feed by storage or disposal.

Further information on storage conditions:

Maximum storage life: 3 years.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

section **8** Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

Does not contain substances above concentration limits fixing an occupational exposure limit.

Biological limit values:

Not available

Exposure limits at intended use:

Not available

Remark:

Not available

8.2 Exposure controls

Appropriate engineering controls:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607(d), (e), and (f)], the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

Individual protection measures, such as personal protective equipment:



- Eye/face protection** : **Suitable eye protection:**
No special measures are necessary.
- Skin protection** : **Hand protection:**
Suitable gloves type:
Waterproof or Chemical-resistant Gloves.
Body protection:
Suitable protective clothing:
Long sleeved shirts and long pants.
Shoes plus socks.
- Respiratory protection** : **Respiratory protection necessary at:**
Mixers/Loaders and applicators must wear a respiratory protection.
Suitable respiratory protection apparatus:
Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter;
Or a NIOSH approved elastomeric particulate respirator with any N, R or P filter.
Or a NIOSH-approved powered air-purifying respirator with an HE filter.

Environmental exposure controls:

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Consumer exposure controls:

Not available

Additional information

Follow the manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and water. Keep and wash PPE separately from other laundry.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of four (4) hours.

EXCEPTION: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

- Physical state** : Solid
- Colour** : Beige
- Odour** : Yeast
- pH** : 5.1-6.2
- Melting point/freezing point** : Not available
- Initial boiling point and boiling range** : Not applicable
- Flash point** : Not applicable
- Flammability** : Not available
- Upper/lower flammability or explosive limits** : 60g/m³
- Vapour pressure** : Not available
- Vapour density** : Not applicable
- Relative density** : 0.55
- Solubility(ies)** : Water Suspensible
- Partition coefficient n-octanol/water (log value)** : Not applicable

Auto-ignition temperature	:	200°C
Decomposition temperature	:	Not available
Viscosity	:	Not available
Explosive properties	:	Non Explosive
Oxidising properties	:	Non Oxidizing
Solubility in other Solvents	:	Not available
Particle characteristics	:	Not available

9.2 Other safety information

Information concerning to the classes of physical hazards

Not available

Other security characteristics

Bulk density: 0.72 g/cm³ reached after compaction.

10 Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Humidity. Freezing. Exposure to low temperatures. High temperatures.

Do not smoke.

10.5 Incompatible materials

None, to our knowledge.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

Additional information

Not available

11 Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity:

The product is not classified.

Data for mixture:

Species	:	Albino Rat
Sex	:	Female
Guideline	:	OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

Subendpoint	Operator	Value	Unit
LD50:	>	2000	mg/kg bw

Conclusion : The product is considered to be not classified for acute oral exposure.

Acute dermal toxicity:

The product is not classified.

Data for mixture:

Species : Albino Rat
 Sex : Female
 Guideline : OECD Guideline 402 (Acute Dermal Toxicity)
 Exposure duration/value : 14
 Exposure duration/unit : d

Subendpoint	Operator	Value	Unit
LD50:	>	2000	mg/kg bw

Conclusion : The product is considered to be classified as Category 5 for acute dermal exposure according to GHS criteria.

Acute inhalation toxicity:

The product is not classified.

Data for mixture:

Species : Albino Rat
 Sex : male/female
 Guideline : OECD Guideline 403 (Acute Inhalation Toxicity)
 Route of administration : Inhalation
 Exposure duration/value : 4
 Exposure duration/unit : h

Subendpoint	Results/Sex	Operator	Value	Unit
LC50:	Female	>	5	mg/L of air

Conclusion : The product is considered to be not classified for acute inhalation exposure.

Skin corrosion/irritation:

The product is not classified.

Data for mixture:

Test type : in vivo
 Species : Albino Rabbit
 Sex : male/female
 Guideline : OECD Guideline 404 (Acute Dermal Irritation/Corrosion)
 Exposure duration/value : 3
 Exposure duration/unit : d

Subendpoint	Basis	Time Point	Reversibility
Erythema score	mean	0 until day 3	No Eythema reactions
Edema score	mean	0 until day 3	No Edema reactions

Conclusion : The product is considered to be not classified as a skin irritant.

Serious eye damage/irritation:

The product is not classified.

Data for mixture:

Test type : in vivo
 Species : Albino Rabbit
 Sex : male/female
 Guideline : OECD Guideline 405 (Acute Eye Irritation/Corrosion)
 Type of method : Frontal application
 Concentration : 0.1 g of product

Subendpoint	Basis	Time Point	Reversibility
Conjunctiva redness	mean	0.3 on first day	Completely reversible on second day of observation

Conclusion : The product is considered to be not classified as an eye irritant.

Skin sensitisation:

The product is not classified.

Data for mixture:

Species : Guinea pig
 Sex : male/female
 Guideline : OECD Guideline 406 (Skin Sensitisation)
 Exposure duration/value : 48
 Exposure duration/unit : h
 Concentration : 10%

Subendpoint	Value	Unit
Skin sensitisation reactions	0	

Conclusion : The product is considered to be not classified for skin sensitisation.

Specific target organ toxicity (repeated exposure):

The product is not classified.

Specific target organ toxicity (single exposure):

The product is not classified.

Carcinogenicity:

The product is not classified.

Reproductive toxicity:

The product is not classified.

Germ cell mutagenicity:

The product is not classified.

Sensitisation to the respiratory tract:

The product is not classified.

Additional information:

Not available

11.2 Information on other hazards

Not available

12 Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Easily biodegradable.

12.3 Bioaccumulative potential

Not potentially bioaccumulative.

12.4 Mobility in soil

The product has not been tested.

12.5 Other adverse effects

Not available

Additional ecotoxicological information

Not available

section 13 Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal:

Waste treatment options:

Do not allow into drains or water courses. Dispose of in accordance with relevant local regulations.

Appropriate disposal/Product:

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Appropriate disposal/Package:

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Remark:

For recycling, contact manufacturer.

Additional information

Not available

section 14 Transport information

14.1 UN number

The product is not hazardous according to the applicable transport regulations.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not regulated.

14.5 Environmental hazards

Not regulated.

14.6 Special precautions for user

Not regulated.

14.7 Bulk shipping according to IMO instruments

Not regulated.

Additional information

Not available

section 15 Regulatory information

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

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

National regulations:

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).

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

15.2 Chemical Safety Assessment

For this substance/mixture a chemical safety assessment is not required.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Additional information

FIFRA information for SDS Section 15 (Regulatory Information):

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution

No pictogram.

Harmful if swallowed, absorbed through skin, or inhaled.

Causes moderate eyes irritation.

16 Other information
Indication of changes

General update.

Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

Key literature references and sources for data

No data available.

Classification for mixtures and used evaluation method

The classification of the mixture is in accordance with the evaluation method described in the GHS.

The classification of the mixture is in accordance with the evaluation method described in HazCom 2012.

Relevant R-, H- and EUH-phrases (Number and full text)

H302	Acute Tox. 4 ORAL	Harmful if swallowed.
H312	Acute Tox. 4 DERMAL	Harmful in contact with skin.
H320	Eye Irrit. 2B	Causes eye irritation.
H332	Acute Tox. 4 INHALATION	Harmful if inhaled.

Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

Additional information

Creation date: 12/28/2023

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The information given in this Safety Data Sheet is based on our present knowledge and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

