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Grow·Soldier

Revision

2023

## SECTION 1:

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

#### 1.1. Product identifier

**GROW·SOLDIER**

#### 1.2. Relevant identified uses of the substance or mixture

**Fertilizer**

**Uses advised against**

**None Known**

#### 1.3. Details of the supplier of the safety data sheet

**Pol. Industrial Lezama-Leguizamon  
C/ Gorbeia nº 11 (48450) Etxebarri – Bizkaia Spain  
www.biobizz.com  
Tel: +34 944 657 951**

#### 1.4. Emergency telephone number

**+34 944657951**

## SECTION 2:

### Hazards identification

#### 2.1. Classification of the substance or mixture

**This product is not subject to classification in accordance to CLP EC 1272/2008, DSD Directive 67/548/EEC or DPD Directive 1999/45/EC.**

#### 2.2. Label elements

**No pictogram required**

**Precautionary statements:**

**P102 Keep out of reach of children.**

**P103 Read carefully and follow all instructions.**

#### 2.3. Other hazards

**This product does not contain any PBT or vPvB substances.**

## SECTION 3:

### Composition/information on ingredients

#### 3.1. Substances

**The condensed by-product of yeast or alcohol production by fermentation of molasses.  
A dark brown syrupy liquid with caramel-like, non-pungent smell.**

#### 3.2. Mixtures

**Not apply**

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## SECTION 4:

### First aid measures

#### 4.1. Description of first aid measures

**General Notes:** Product is not toxic

**Inhalation:** In the event of inhalation remove the person exposed to fresh air

**Skin:** May cause slight irritation, wash area with soap and water

**Eyes:** May cause irritation, flood eye with water

**Ingestion:** No specific first aid measures are required

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

Not known

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

Treat Symptomatically

## SECTION 5:

### Firefighting measures

#### 5.1. Extinguishing media

The product itself does not burn, use a suitable extinguisher for rounding area

#### 5.2. Special hazards arising from the substance or mixture

With heat, product produces carbon, carbon monoxide, carbon dioxide, nitrogen oxides and smoke.

#### 5.3. Advice for firefighters

Fire-fighters should wear full protective clothing and self-contained breathing apparatus operated in positive mode.

## SECTION 6:

### Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Follow the procedures for safe handling as listed in this safety data sheet

#### 6.2. Environmental precautions

Biodegradable, increases BOD and COD – see 12.

Contain spills with sand and shovel into salvage container for disposal. Hose down small spillages or residue (slippery when wet) into sewers serviced by wastewater plant with plenty of water. Prevent direct discharge into watercourses or lakes due to high BOD. If this does occur, inform Local Authorities at once.

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### 6.3. Methods and material for containment and cleaning up

Contain and control the leaks or spills with non-combustible absorbent materials such as earth, vermiculite, diatomaceous earth in drums for waste disposal.

### 6.4. Reference to other sections

See sections 8 and 13

## SECTION 7:

### Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin, eyes & clothing. Wear recommended PPE.

Do not expose to high temperatures for an extended period of time to avoid the risk of Maillard reactions.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in ventilated tanks (mild steel, stainless steel, polyethylene, PVC) at ambient temperatures. Avoid microbiological contamination or dilution with water. Storage Temperature ideally ambient but ensure <40 °C if heating is required for handling

#### 7.3. Specific end use(s)

Typical end uses include animal feed component, and industrial use

## SECTION 8:

### Exposure controls/personal protection

#### 8.1. Control parameters

This product/mixture does not contain any relevant quantities of materials with critical values that have to be controlled.

#### 8.2. Exposure controls

None under normal conditions

**Personal protection:** None under normal conditions

**Eye protection:** Safety glasses or goggles may be desirable when emptying container or drums. Avoid contact with eyes.

**Hand protection:** Not required, but rubber gloves advised. Avoid prolonged contact with skin. Wash hands before breaks and at the end of work.

**Body protection:** Not required but suitable protective clothing recommended.

**Respiratory protection:** Not required except in the case of aerosol formation. Do not breathe spray.

**Thermal hazards:** Avoid heating over 40°C

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## SECTION 9:

### Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**Appearance at 25°C:** Low viscous brown liquid

**Odour:** Very weak smell

**Odour threshold:** Not determined

**pH value as is:** About 5.0

**Freezing point:** < 0 (will become more viscous)

**Initial boiling point (°C):** >100

**Flash point (°C):** >100

**Evaporation rate:** Not known. Similar to water

**Flammability:** Will not support combustion

**Explosion limits (lower) (kg/ m<sup>3</sup>):** Not applicable

**Vapour pressure:** As for water

**Relative Density at 20 °C (kg/l):** 1.25 -1.32

**Solubility in water (% wight):** Forms infinite aqueous solution. Soluble in polar solvents.

**Auto ignition temperature:** Not known

**Thermol decomposition (°C):** Not known

**Viscosity (cps) at 20°C:** About 5000-20000

**Oxidising properties:** Not considered to have oxidizing properties

**Explosive properties:** Not considered to have explosive properties

**Other information:** No other relevant information

#### 9.2. Other information

No other relevant information

## SECTION 10:

### Stability and reactivity

#### 10.1. Reactivity

This product is not reactive under normal use

#### 10.2. Chemical stability

The Product is stable under the recommended handling and storage conditions in Section 7.

#### 10.3. Possibility of hazardous reactions

No Hazardous Reactions known under normal use

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#### 10.4. Conditions to avoid

Stable unless diluted with >5% water when yeast, mould and some harmless bacterial (e.g. Lactobacillus spp.) growth may occur in warm temperatures. Pathogens will not grow in undiluted product due to high osmotic pressure and low water activity. Store at <40 °C

#### 10.5. Incompatible materials

Strong acids and alkalis, oxidising agents, ammonia, ammonium salts

#### 10.6. Hazardous decomposition products

Thermal decomposition can produce carbon, carbon monoxide, carbon dioxide, nitrogen oxides and smoke.

## SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation [EC] No 1272/2008

Under normal use Health injuries are not known or expected

**Skin corrosion/irritation:** May cause slight irritation to skin, but not classified as irritant

**Serious eye damage/irritation:** May cause slight irritation to eyes, but not classified as irritant

**Respiratory or skin sensitization:** None of the components considered to be potential sensitisers

**Germ cell mutagenicity:** None of the components considered to be mutagenic

**Carcinogenicity:** None of the components considered to be carcinogenic

**Reproductive toxicity:** None of the components considered to be toxic for reproduction

**STOT-single exposure:** No specific organ toxicity

**STOT repeated exposure:** No specific organ toxicity

**Aspiration hazard:** Not an aspiration hazard

#### 11.2. Information on other hazards

Not applicable

## SECTION 12: Ecological information

#### 12.1. Toxicity

No significant environmental hazard or adverse effect from human or animal exposure resulting from accidental release of this material is anticipated. Its components are used in food and feed and there is no LD50

**COD [mgO<sub>2</sub>/g ds]:** About 350

**BOD [mgO<sub>2</sub>/g ds]:** About 300

**Ecotoxicity:** Due to its high BOD, accidental discharge of large quantities into rivers or lakes will cause temporary algal growth ('bloom') and dissolved oxygen reduction with possible deleterious effects on fish.

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## 12.2. Persistence and degradability

All organic components known to degrade quickly

## 12.3. Bioaccumulative potential

None of the components expected to be bioaccumulate

## 12.4. Mobility in soil

The components have a high mobility in soil

## 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances

## 12.6. Endocrine disrupting properties

Not known

## 12.7. Other adverse effects

None known

## SECTION 13:

### Disposal considerations

#### 13.1. Waste treatment methods

Will not be a specific hazard to waste water treatment plants, but does have very high biological oxygen demand. Confirm disposal methods in accordance with local regulations.

## SECTION 14:

### Transport information

#### 14.1. UN number or ID number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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## SECTION 15:

### Regulatory information

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

**Feed legislation:** meets the requirements of EU feed legislation including but not limited to the following pieces of legislation and amendments (if applicable):

Regulation (EC) 178(2002 laying down the general principles and requirements of food law.

Regulation (EC) 183/2005 laying down the requirements of feed hygiene.

Directive 2002/32/EC on undesirable substances in animal feed.

Complies with Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of chemicals (REACH) and amendments.

The components listed in this datasheet are either exempt or registered under REACH.

#### 15.2. Chemical safety assessment

Not applicable

## SECTION 16:

### Other information

**Symbol(s):** None

**R and or S phrases:** None

**Recommended uses:** As an animal feed component, fermentation substrate, soil treatment, waste water lagoon activated sludge nutrient, nitrogen reduction.

Compliance with the form of the SDS (regulation EU 2020/878)

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