

# Safety Data Sheet

section

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

### 1.1 Product identifier

Trade name/designation : Marauder Rhizobia

Item code : 2050\_2052\_2054

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

Relevant identified uses : Seed treatment.  
To use as part of Marauder.

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:** 45891 Ohio Van Wert  
**Country:** United States  
**Telephone:** +1 419-232-2461  
**Website:** www.agrauxine.us  
**E-mail:** fds-agx@agrauxine.lesaffre.com

### 1.4 Emergency Telephone Number

U.S.:

CHEMTREC : +1 800-424-9300.

section

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

Hazards identification: This mixture is not classified as dangerous.

### 2.2 Label elements

No labelling applicable.

### 2.3 Other hazards

**Adverse human health effects and symptoms:**

May cause eye, skin and respiratory system irritation.

Microorganisms can potentially cause sensitisation reactions.

section

## 3 Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Substance	Concentration (%)	Product identifier	Classification
Fermentation broth containing Bradyrhizobium spp.	70-85%		Not classified

#### Remark

Full text of H- phrases: see section 16.

## 4 First aid measures

### 4.1 Description of first aid measures

#### General information:

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice and attention if you feel unwell.

#### Following skin contact:

Remove contaminated clothing. Rinse immediately with plenty of water (for at least 15 minutes). If case of redness or irritation, call a doctor.

#### Following eye contact:

Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Consult an ophthalmologist if irritation persists.

#### Following ingestion:

Rinse mouth out with water. Give water to drink. Seek medical advice (show the label where possible).

#### 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.

#### Effects:

May be irritating to the respiratory system.  
 May cause skin irritation.  
 May cause eye irritation.

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

#### Notes for the doctor:

Treat symptomatically.

## 5 Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:

All extinguishing agents can be used.

### 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

Wear a self-contained breathing apparatus and chemical protective clothing.

### **Additional information**

Do not inhale vapors and fumes.  
 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 spillage area.  
 Evacuate unnecessary personnel.  
 Use personal protection equipment.  
 Avoid contact with skin and eyes. Avoid breathing vapors.

### **6.2 Environmental precautions**

Contain the spilled material by bunding. Do not allow to enter drains or water courses.

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

Take up liquid spill into inert absorbent material.  
 Collect all waste in suitable and labeled containers and dispose according to local legislation.

### **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 the work station. Avoid contact with skin and eyes. Avoid breathing vapors. Handle in accordance with good industrial hygiene and safety practice.

#### **Advices on general occupational hygiene:**

Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

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

Keep container tightly closed in a dry, cool, and well-ventilated place.  
 Keep container closed when not in use.  
 Store away from extremely high or low temperatures. Protect from sunlight.

#### **Advice on joint storage:**

Keep away from food, drink and animal feedingstuffs.  
 Incompatible materials : Strong acids, strong bases and strong oxidants.

#### **Further information on storage conditions:**

Store in original container.

### **7.3 Specific end uses**

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

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:**

Ensure that there is a suitable ventilation system.

See section 7. No additional measures necessary.

**Individual protection measures, such as personal protective equipment:**



**Eye/face protection**

: **Suitable eye protection:**  
Wear eye protection equipment.

**Skin protection**

: **Hand protection:**  
**Suitable gloves type:**  
Wear protective gloves.  
**Body protection:**  
**Suitable protective clothing:**  
Wear suitable protective clothing.  
**Recommended material:**  
Chemically resistant materials and fabrics.

**Respiratory protection**

: **Respiratory protection necessary at:**  
If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.  
In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.  
**Suitable respiratory protection apparatus:**  
Wear a NIOSH approved respirator such as: Air-Purifying Respirator for Dusts and Mists.

**Environmental exposure controls:**

Do not allow to enter drains or water courses.

**Consumer exposure controls:**

Not available

**Additional information**

Not available

section **9** **Physical and chemical Properties**

**9.1 Information on basic physical and chemical properties**

Physical state	: Liquid
Colour	: Beige To light brown
Odour	: Mild
pH	: 6.5 - 7.4

<b>Melting point/freezing point</b>	: 25 °F (-3.89 °C)
<b>Initial boiling point and boiling range</b>	: 216 °F (102.22 °C)
<b>Flash point</b>	: Not available
<b>Flammability</b>	: Not available
<b>Upper/lower flammability or explosive limits</b>	: Not available
<b>Vapour pressure</b>	: Not available
<b>Vapour density</b>	: Not available
<b>Relative density</b>	: Not available
<b>Density</b>	: 1 g/cc
<b>Solubility(ies)</b>	: Insoluble in water
<b>Partition coefficient n-octanol/water (log value)</b>	: Not applicable
<b>Auto-ignition temperature</b>	: Not available
<b>Decomposition temperature</b>	: Not available
<b>Dynamic viscosity</b>	: Not applicable
<b>Kinematic viscosity</b>	: Not available
<b>Oxidising properties</b>	: Not explosive
<b>Oxidising properties</b>	: Non oxidizing
<b>Solubility in other Solvents</b>	: Not available
<b>Particle characteristics</b>	: Not applicable

## 9.2 Other safety information

### Information concerning to the classes of physical hazards

Not available

### Other security characteristics

Not available

# section 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

Extremely high or low temperatures. Direct sunlight.

## 10.5 Incompatible materials

Strong acids, strong bases and strong oxidants.

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

### Additional information

Not available

# section 11 Toxicological information

## 11.1 Information on toxicological effects

### Acute oral toxicity:

No data available.

**Acute dermal toxicity:**

No data available.

**Acute inhalation toxicity:**

No data available.

**Skin corrosion/irritation:**

No data available.

**Serious eye damage/irritation:**

No data available.

**Skin sensitisation:**

No data available.

**Specific target organ toxicity (repeated exposure):**

No data available.

**Specific target organ toxicity (single exposure):**

No data available.

**Carcinogenicity:**

No data available.

**Reproductive toxicity:**

No data available.

**Germ cell mutagenicity:**

No data available.

**Sensitisation to the respiratory tract:**

No data available.

**Additional information:**

Not available

## 11.2 Information on other hazards

Not available

## section 12 Ecological information

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 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:**

**Appropriate disposal/Product:**

Dispose of waste according to the local applicable legislation.

**Appropriate disposal/Package:**

Dispose of waste according to the local applicable legislation.

Dispose of it with an authorized recycling or waste treatment entity, according to local requirements.

**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 GHS regulation.

**National regulations:**

Regarding US federal, US States and Canada federal: Neither this product nor its chemical components appear on any lists, or its chemical components are not required to be disclosed.

Fertilisers and biostimulants are subject to national regulations. It is the responsibility of the user to ensure that the product is used in compliance with national regulation in place in his country.

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.

**Additional information**

Not available

## section 16 Other information

**Indication of changes**

Version 3: 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.

GHS: Globally Harmonised System of Classification and Labeling of Chemicals.

## 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.

## Training advice

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

## Additional information

Creation date: 10/11/2024

Version date: 10/11/2024

Printing date: 10/11/2024

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.