

## SAFETY DATA SHEET

Prepared in accordance with US HazCom 2012 (US GHS)

Date of Compilation : 12.05.2021

Revision No. 00

Version: EN/01

**SECTION 1: Identification of the mixture and of the company/undertaking****1.1. Product identifier****Product Name:** Calfuze**1.2. Relevant identified uses of the mixture and uses advised against****Relevant identified uses:**

Used as agricultural input

**Uses advised against:**

No information available

**1.3. Details of the supplier of the safety data sheet****Manufacturer:**

Privi Life Sciences Private Limited

**Reg. office:** Privi House, A-71, TTC, Thane Belapur Road, Near Kopar Khairane Railway Station, Navi Mumbai (MS) INDIA- 400 709; Tel : 022 6602 3500**Factory:** 22/1A, Dhatav MIDC, Roha, District: Raigad, Maharashtra, India- 402 109**Imported and Distributed by**Privi Life Sciences USA Corp  
645 Howard Ave, Somerset NJ 08873Email: [info@priviamerica.com](mailto:info@priviamerica.com); call: 732-960-4504; fax: 732-658-4827**1.4. Emergency telephone number:****Poison Control Centre, United States: Emergency telephone number:**

1-800-222-1222

**India:**

+91 8879788918 (For calls within India Only)

**SECTION 2: Hazards identification****2.1. Classification of the mixture****Classification according to US HazCom 2012 (US OSHA GHS):**

Reproduction Toxicity, Category 1B


Eye Damage, Category 1

**Additional Information:**

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None

## 2.2. Label elements

Labeling according to US HazCom 2012 (US OSHA GHS):	
Hazard pictogram:	
Signal word:	Danger!
Hazard statements:	May damage fertility or the unborn child. Causes serious eye damage.
Precautionary statements:	Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to an approved disposal plant in accordance with national/local regulations. Wear eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

Not known

## SECTION 3: Composition/information on ingredients

### 3.1. Mixture

CAS No.	Chemical Name	Weight (% w/w) content (Typical or range)	Classification according to US HazCom 2012 (US OSHA GHS)
10043-35-3	Boric acid	18.3	Reproduction Toxicity, Category 1B
7733-02-0	Zinc Sulfate	14	Eye Damage, Category 1 Acute Oral Toxicity, Category 4

Note: None of the other ingredients of the product are hazardous under US HazCom 2012 (US OSHA GHS) and thus not required to be reported in this section.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### following inhalation:

Immediately remove casualty to fresh air and keep them warm. If breathing has stopped, and if safe to do so, apply artificial resuscitation using a barrier device. Seek medical attention if symptoms persist or develop.

#### following skin contact:

Immediately rinse the affected area with plenty of water, or soap and water, for at least five minutes. Seek medical attention if symptoms develop or if there's reason for concern.

#### following eye contact:

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Immediately rinse the affected eye with plenty of water or eye wash fluid for at least 15 minutes while separating the eyelids. Remove contact lenses if safe and easy to do so and continue rinsing. Avoid contaminated water coming into contact with the other eye or face. Seek medical attention if symptoms persist or develop

**following ingestion:**

Do NOT induce vomiting. Rinse out mouth with water if casualty is fully conscious. Seek medical attention if symptoms develop, or if there's reason for concern

**notes for the doctor:**

Treat symptomatically

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

On skin contact: May cause Skin irritation

On Eye Contact: May cause eye irritation and reddening

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

No information available

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

Dry extinguishing media, foam, carbon dioxide, Water spray or fog

**5.2. Special hazards arising from the mixture**

Burning may produce Sulphur dioxide (SO<sub>2</sub>). Sulphur trioxide, Zinc Oxide and irritating, toxic and obnoxious fumes

**5.3. Advice for fire-fighters**

Avoid dust generation. Self-contained breathing equipment. Individual protective equipment (gloves, boots (chemical resistant) and suitable clothing). Seek emplacement with your back against the wind.

**SECTION 6: Accidental release measures**

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

Avoid contact with the eyes, skin and clothing. Do not act without appropriate protective equipment.

**6.2. Environmental precautions**

Recover the whole product that is possible in a clean dry plastic or metallic container. Prevent material from entering drains or water courses

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

Small spillage: Vacuum or sweep up material and place in a disposal container.

Large spillage: Scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation

**6.4. Reference to other sections**

Please see Section 8

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Avoid dust generation. Do not ingest. Avoid contact with eyes and skin. Do not breathe dust. Wear suitable protective clothing.

Ensure thorough ventilation of stores and work areas.

Keep away from incompatibles (please refer to Section 10.5).

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Handle in accordance with good industrial hygiene and safety practice.

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

Keep container tightly closed and sealed until ready for use.

Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Protect containers against physical damage and check regularly for leaks.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limit values:**

No data available

**8.2. Exposure controls**

**Appropriate engineering controls:**

Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Individual protection measures:**

**Eye/face protection:**

Use tight-fitting goggles, face shield or safety glasses (refer to U.S. OSHA 29 CFR 1910.133) with side shields if eye contact might occur.

**Skin/Hand protection:**

Avoid skin contact. Use chemically resistant gloves (refer to U.S. OSHA 29 CFR 1910.138), boots, and apron if risk of skin contact.

Gloves suitable for permanent contact Material: natural rubber/natural latex, polychloroprene, butyl-rubber, Polyvinylchloride, nitrile rubber/nitrile latex, fluoro carbon rubber.

Minimum Thickness of Gloves material preferred: 0.3 mm

When prolonged or frequently repeated contact may occur, a glove with breakthrough time greater than 240 minutes is recommended.

When only brief contact is expected, a glove with breakthrough time greater than 60 minutes is recommended

**Respiratory protection:**

No personal respiratory protective equipment normally required. If engineering controls do not maintain airborne concentrations below recommended exposure, an approved, properly fitted respirator (refer to U.S. OSHA 29 CFR 1910.134) should be used

**Thermal Hazards:**

No information available

**Environmental exposure controls:**

Do not allow run-off from fire fighting to enter drains or water courses

**SECTION 9: Physical and chemical properties**

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

<b>Appearance</b>	Off White- Brown Fine powder
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	No data available

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<b>pH (1% solution in water)</b>	5.0 - 6.0
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	> 230 °C (Closed cup)
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Non-flammable
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Relative Density</b>	No data available
<b>Solubility in water</b>	98% @20°C
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Non-explosive
<b>Oxidising properties</b>	Non-oxidising

**9.2. Other information**

Not available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal temperatures and pressures. The product is reactive with the incompatible materials (please refer section 10.5).

**10.2. Chemical stability**

Stable under normal temperatures and pressures

**10.3. Possibility of hazardous reactions**

Hazardous polymerization cannot occur.

**10.4. Conditions to avoid**

Keep away from heat and moisture/water

**10.5. Incompatible materials**

Strong acids and alkalies, phosphorus, finely divided aluminium, magnesium, strong oxidizing agents

**10.6. Hazardous decomposition products**

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Burning may produce Sulphur dioxide (SO<sub>2</sub>). Sulphur trioxide, Zinc Oxide and irritating, toxic and obnoxious fumes

### **SECTION 11: Toxicological information**

The product has not been tested for its toxicological properties. All the information / data given below is publicly available or estimated.

#### **11.1. Information on toxicological effects**

##### **Acute toxicity:**

Rat Oral LD<sub>50</sub> (estimated): > 2000 mg/kg bw

Rabbit Dermal LD<sub>50</sub> Rabbit (estimated): > 2000 mg/kg bw

##### **Skin corrosion/irritation:**

No data available for the product as such.

Based on the available data / information on ingredients, the product is not expected to be skin irritant or corrosive

##### **Serious eye damage/irritation:**

No data available for the product as such.

Based on the below Zinc Sulphate data and its resulting GHS classification when compared with US OSHA GHS classification criteria, the product has been classified as Eye damage Cat. 1

##### Available study data / information on Zinc Sulfate:

In a well-performed eye irritation/corrosion study, conducted according to Directive 92/69/EEC B.5 and OECD guideline 405, three male New Zealand White rabbits were treated by instillation of approximately 98.1 mg of zinc sulphate (ZnSO<sub>4</sub>·7H<sub>2</sub>O) into the conjunctival sac of one eye. The other eye remained untreated and served as control. The eyes (unrinsed) were examined at 1, 24, 48 and 72 hours and 7, 14 and 21 days after instillation. No symptoms of systemic toxicity were observed and no mortality occurred.

Corneal injury was seen as slight dulling of the normal lustre (opacity grade 0) and/or epithelial damage (10% of the corneal area) in two animals. This injury had resolved within 24 hours in one animal and within 72 hours in the other animal.

Irritation of the conjunctivae was seen as redness (mean scores over 24-72 hours 2, 2.7 and 2.7), chemosis (mean scores 2, 2.7 and 3.7) and discharge.

Yellow/white spots were observed in the tissue of the lower eyelid, nictitating membrane and/or sclera in all animals from day 7 until termination. These spots were described as signs of necrosis and consisted of encapsulated material of unknown origin which caused protrusions at termination of the study. Reduced elasticity of the eyelids was noted in one animal, 72 hours and 7 days after instillation.

Based on the degree and persistence of the corneal injury, zinc sulphate is considered to cause severe ocular irritation.

##### **Respiratory or skin sensitization:**

No data available for the product as such.

Based on the available data / information on ingredients, the product is not expected to be Respiratory or skin sensitizer

##### **Germ cell mutagenicity:**

No data available for the product as such.

Based on the available data / information on ingredients, the product is not expected to be mutagen

##### **Carcinogenicity:**

No data available for the product as such.

Based on the available data / information on ingredients, the product is not expected to be Carcinogen

No ingredient is listed by NTP, IARC or OSHA as a carcinogen

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**Reproductive toxicity:**

No data available for the product as such.

Based on the below Boric acid data and its GHS classification when compared with US OSHA GHS classification criteria, the product has been classified as Reproductive Toxicity Category 1B

Available data / information on Boric acid:

A multigeneration study in the rat (Weir, 1966) gave a NOAEL for fertility in males of 17.5 mg B/kg/day.

**STOT-single exposure:** No data available for the product as such. Based on the available data / information on ingredients, the product is not expected to be target organ toxic on single exposure

**STOT-repeated exposure:** No data available for the product as such. Based on the available data / information on ingredients, the product is not expected to be target organ toxic on repeated exposure

**Aspiration hazard:** No data available for the product as such. Based on the available data / information on ingredients, the product is not expected to be Aspiration hazard

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**SECTION 12: Ecological information**

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**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**

No information available

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**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods**

Dispose of contents/container in accordance with local/regional/national/international regulation.

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**SECTION 14: Transport information**

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The material is not regulated by ADR/RID/IATA/IMDG/US DOT

<b>Regulation</b>	<b>ADR/RID/ADN/ ICAO-TI/IATA- DGR</b>	<b>IMDG Code</b>	<b>US DOT</b>
<b>14.1. UN Number</b>	N/A	N/A	N/A
<b>14.2. UN proper shipping name</b>	N/A	N/A	N/A
<b>14.3. Transport hazard class(es)</b>	N/A	N/A	N/A
<b>14.4. Packing group</b>	N/A	N/A	N/A
<b>14.5. Environmental hazards</b>	N/A	N/A	N/A
<b>14.6. Special precaution for users</b>	N/A	N/A	N/A
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>	N/A	N/A	N/A

#### **SECTION 15: Regulatory information**

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

All the chemical ingredients are listed in TSCA inventory and designated as Active.  
Zinc Sulfate (CAS# 7733-02-0) is listed in CERCLA.

#### **SECTION 16: Other information**

##### **Key literature references and sources for data:**

TOXNET; eChemPortal

##### **Disclaimer:**

All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for its own use of this product. Privi Life Sciences Private Limited does not assume any liability arising out of the use by others of this product.