

## Protein Stabilizer

**Cat#: orb436805 (MSDS)**

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

#### 1.1. Product identifier

Product name orb436805

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

Identified uses For research use only.

### 2: Hazards identification

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

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

#### 2.2. Label elements

Hazard statements NC Not Classified

#### 2.3. Other hazards

No information available.

### 3: Composition/information on ingredients

#### 3.2. Mixtures

Composition comments No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

### 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation Due to the small packaging, the risk of inhalation is minimal. If spray/mist has been inhaled,

position	proceed as follows. Move affected person to fresh air and keep warm and at rest in a comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. Due to the small packaging, the risk of ingestion is minimal.
Skin contact clothing	Due to the small packaging, the risk of skin contact is minimal. Remove contaminated and rinse skin thoroughly with water. Get medical attention if any discomfort continues.
Eye contact	Due to the small packaging, the risk of eye contact is minimal. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation	May cause coughing or mild irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor No specific recommendations.

### 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

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

Specific hazards There are no known reactivity hazards associated with this product. No unusual fire or explosion hazards noted.

Hazardous combustion products Does not decompose when used and stored as recommended.

#### 5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment Use protective equipment appropriate for surrounding materials.  
for firefighters

## **6: Accidental release measures**

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

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots,  
clothing or apron, as appropriate.

### **6.2. Environmental precautions**

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

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

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.4. Reference to other sections**

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

## **7: Handling and storage**

### **7.1. Precautions for safe handling**

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be

implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

Storage precautions Storage class

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

Specific end use(s)

Keep only in the original container. Store at specified temperature. Refer to product label.

Refer to product datasheet.

The identified uses for this product are detailed in Section 1.2.

## **8: Exposure Controls/personal protection**

### **8.1. Control parameters**

### **8.2. Exposure controls**

Protective equipment

Appropriate engineering controls Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any

controls occupational exposure limits for the product or ingredients.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible.

Other skin and body protection Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective

clothing in case of contact.

Hygiene measures Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and

before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.

Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to

prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection No specific recommendations. Respiratory protection must be used if the airborne

contamination exceeds the recommended occupational exposure limit.

## 9: Physical and Chemical Properties

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

Appearance Solid or liquid (may vary).

Colour Various colours.

Odour No characteristic odour.

Melting point Not determined.

Initial boiling point and range <100 °C @ 760 mm Hg

Flash point Not applicable.

Evaporation rate Not determined.

Upper/lower flammability or explosive limits Not applicable.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density Not determined.

Solubility(ies) Soluble in water.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

Viscosity Not determined.

Explosive properties Not determined.

Oxidising properties Not determined.

### 9.2. Other information

Other information None.

## 10: Stability and reactivity

### 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

## 10.2. Chemical stability

Stability Stable at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

## 10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

## 10.5. Incompatible materials

Materials to avoid Strong acids.

## 10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

# 11: Toxicological information

## 11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Not determined.

Skin corrosion/irritation

Human skin model test Not determined.

Extreme pH 7.2

Serious eye damage/irritation

Serious eye damage/irritation Not determined.

Germ cell mutagenicity

Genotoxicity - in vitro Not determined.

Carcinogenicity

Carcinogenicity Not determined.

Reproductive toxicity

Reproductive toxicity - fertility Not determined.

Specific target organ toxicity - single exposure

STOT - single exposure Not determined.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not determined.

Aspiration hazard

Aspiration hazard Not determined.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Symptoms following

overexposure may include the following: Coughing.

Ingestion May cause discomfort if swallowed.

Skin contact Liquid may irritate skin.

Eye contact Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health Because of the product's quantity and composition, the health hazard is regarded as low.

hazards

Route of exposure Ingestion. Skin and/or eye contact

## 12: Ecological Information

Ecotoxicity There are no data on the ecotoxicity of this product.

### 12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

### 12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

### 12.4. Mobility in soil

Mobility The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment



Results of PBT and vPvB assessment No information available

## 12.6. Other adverse effects

Other adverse effects Not determined.

## 13: Disposal considerations

### 13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## 14: Transport information

General

Road transport notes

Rail transport notes

Sea transport notes

Air transport notes

### 14.1. UN number

Not applicable.

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Not classified.

Not classified.

Not classified.

Not classified.



**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**

Environmentally hazardous substance/marine pollutant  
No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

**15: Regulatory information**

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance Workplace Exposure Limits EH40.

Approved Classification and Labelling Guide (Sixth edition) L131.

Safety Data Sheets for Substances and Preparations.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## 16: Other information

General information Only trained personnel should use this material.

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Revision 3

Supersedes date 13/04/2016

SDS number 20336

Risk phrases in full Not classified.