

# MATERIAL SAFETY DATA SHEET

## Chemical Product

Product Name: RIBOFLAVIN 99% (For Biochemistry)  
CAS#: 83-88-5  
Chemical Name: RIBOFLAVIN 99% (For Biochemistry)  
Chemical Formula: C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>O<sub>6</sub>

## Composition and Information on Ingredients

Substance / Preparation: Vitamina B2 SG80, riboflavina

CAS No: 83-88-5

Substance.

Contains no other components or impurities which will influence the classification of the product.

Name	S.K.U	% by Weight
RIBOFLAVIN	GCS-9357	100

## Hazards Identification

Classification of the  
substance or mixture  
Classification EC 67/548  
or EC 1999/45  
Classification :  
Not classified.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)  
Not classified.

Other hazards : The substance does not fulfil the criteria to be identified as  
PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## First Aid Measures

### Description of first aid measures:

Inhalation: Assure fresh air breathing. Allow the victim to rest.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap  
and water, followed by warm water rinse.

Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed:**

Symptoms relating to use: Not expected to present a significant hazard under anticipated conditions of normal use.

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

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## **Fire and Explosion Data**

**Extinguishing media:**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.  
Surrounding fires : Use water spray or fog for cooling exposed containers.

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

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

**Advice for fire-fighters:**

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.  
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## **Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures: For emergency responders : Equip cleanup crew with proper protection.

:Ventilate area.

For non-emergency personnel :Evacuate unnecessary personnel.

**Environmental precautions**

Environmental precautions :Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### Methods and material for containment and cleaning up:

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

### Handling and Storage

#### Precautions for safe handling

Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

#### Conditions for safe storage, including any incompatibilities:

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### Exposure Controls/Personal Protection

#### Exposure controls:

Personal protection: Avoid all unnecessary exposure.

- Respiratory protection: Wear approved mask.
- Hand protection: Wear protective gloves.
- Skin protection: Wear suitable protective clothing.
- Eye protection: Chemical goggles or safety glasses.
- Others: When using, do not eat, drink or smoke.

#### Control parameters:

Occupational Exposure Limits: No data available.

### Physical and Chemical Properties

#### Physical state and appearance

: Solid

Odor	: Slight odor.
Taste	: Not available.
Molecular Weight	: Not available.
Color	: Orange yellow powder.
pH (1% soln/water)	: Not available.
Boiling Point	: Not available.
Melting Point	: 280°C.
Critical Temperature	: Not available.

Specific Gravity	: Not available.
Vapor Pressure	: Not applicable.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.

#### Solubility

6

## Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Incompatibility with various substances: Not available.

Materials to avoid: Strong acids. Strong bases.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

## Toxicological Information

### Information on toxicological effects:

Acute toxicity:

- Inhalation: Based on available data, the classification criteria are not met.
- Dermal: Based on available data, the classification criteria are not met.
- Ingestion: Based on available data, the classification criteria are not met. Corrosion: Based on available data, the classification criteria are not met. Sensitization: Based on available data, the classification criteria are not met. Mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

## Ecological Information

Toxicity information: Not established.

BOD5 and COD: Not available.

Persistence - degradability: Biodegradable.

Bioaccumulative potential: Not established.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Environmental precautions: Avoid release to the environment.

## Disposal Considerations

Waste Disposal: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

## Transformation Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

## Other Regulatory Information

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

Safety, health and environmental : Ensure all national/local regulations are observed.

**regulations/legislation**

specific for  
the  
substance or  
mixture.

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

**Chemical Safety Assessment:**

Chemical Safety Assessment : It has not been carried out.

**Additional Information**



References: Not available.

Other Special Considerations: Not available.

## ***Disclaimer:***

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