



# Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

**MATERIAL SAFETY DATA SHEET**

**MSDS**

Savgan Heights ; 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

## Section 1 - Chemical Product and Company Identification

### Product Name : RIBOFLAVIN

**Synonyms:** Lactoflavin, Vitamin G, Vitamin B2

**CAS No.:** 83-88-5

**Molecular Weight:** 376.36

**Chemical Formula:**  $C_{17}H_{20}N_4O_6$

## Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Riboflavin	83-88-5	98-100%	No

## Section 3 - Hazardous Identification

This substance is not classified as dangerous according to Directive 67/548/EEC

## Section 4 - First Aid Measures

### **If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration

### **In case of skin contact**

Wash off with soap and plenty of water.

### **In case of eye contact**

Flush eyes with water as a precaution.

### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## Section 5 - Fire Fighting Measures

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6 - Accidental Release Measures

**Personal precautions** Avoid dust formation.

### **Environmental precautions**

Do not let product enter drains.

### **Methods for cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

### **Handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### **Storage**

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

## Section 8 - Exposure Controls, Personal Protection

### **Personal protective equipment**

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Hand protection**

For prolonged or repeated contact use protective gloves.

#### **Eye protection**

Safety glasses

#### **Hygiene measures**

General industrial hygiene practice.

## Section 9 - Physical and Chemical Properties

**Appearance** Form

powder Colour

dark yellow **Safety**

### **data**

pH no data available

Melting point 290 °C

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

## Section 10 - Stability and Reactivity

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Strong oxidizing agents, Reducing agents, Bases, Calcium, Metallic salts

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Phosphorous oxides

## Section 11 - Toxicological Information

### Acute toxicity

LD50 Oral - rat - > 10.000 mg/kg

### Irritation and corrosion

no data available

### Sensitisation

no data available

### Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Ingestion** May be harmful if swallowed.

## Section 12 - Ecological Information

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

no data available

### Further information on ecology

no data available

## Section 13 - Disposal Considerations

### Product

Observe all federal, state, and local environmental regulations.

### Contaminated packaging

Dispose of as unused product.

## Section 14 - Transport Information

### ADR/RID

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## **Section 15 - Regulatory Information**

### **Labelling according to EC Directives**

Further information:

The product does not need to be labelled in accordance with EC directives or respective national laws.

## **Section 16 - Additional Information**

**Not Regulated**