

## RIBOFLAVIN (VITAMIN B2)

### SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: RIBOFLAVIN (VITAMIN B2)  
Product Code: CM 23,573  
CAS#: 83-88-5  
Chemical Formula:  $C_{17}H_{20}N_4O_6$   
Molecular Formula: 376.36

### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Name: RIBOFLAVIN (VITAMIN B2)  
Chemical Formula:  $C_{17}H_{20}N_4O_6$   
Molecular Formula: 376.36

### SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture  
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.  
Other hazards - None

### SECTION 4: FIRSTAID 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 AND EXPLOSION DATA

Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Special hazards arising from the substance or mixture  
Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Sodium oxides  
Advice for firefighters  
Wear self contained breathing apparatus for firefighting if necessary.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures  
Avoid dust formation. Avoid breathing vapours, mist or gas.  
Environmental precautions  
Do not let product enter drains.



Methods and materials for containment and cleaning up  
Sweep up and shovel. Keep in suitable, closed containers for disposal.

### SECTION 7: HANDLING AND STORAGE

**Precautions:**

Keep away from heat. Keep away from sources of ignition.

**Storage:**

Store in cool, dry place in closed containers

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

**Respiratory protection**

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 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).

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Powder.
Odor	:	Not available
Taste	:	Not available
Molecular Weight	:	Not available
Color	:	Not available
pH (10% soln/water)	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
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	:	Not available

### SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under recommended storage conditions.

Instability Temperature: Not available.

Conditions of Instability: Excess heat.



Incompatibility with various substances: Strong oxidizing agents  
Special Remarks on Reactivity: Not available.

#### SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 Oral - rat - > 10.000 mg/kg  
Skin corrosion/irritation: Not available.  
Serious eye damage/eye irritation: Not available.  
Respiratory or skin sensitization: Not available.  
Carcinogenicity: Not available.  
Reproductive toxicity: Not available.  
Specific target organ toxicity - single exposure: Not available.  
Specific target organ toxicity - repeated exposure: Not available.  
Aspiration hazard: Not available.

#### SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Not available  
Persistence and degradability: Not available.  
Bioaccumulative potential: Not available.  
Mobility in soil: Not available.

#### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:  
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### SECTION 14: TRANSPORT INFORMATION

UN number:		
ADR/RID:	IMDG:	IATA:
UN proper shipping name		
ADR/RID: Not dangerous goods		
IMDG: Not dangerous goods		
IATA: Not dangerous goods		
Transport hazard class(es):		
ADR/RID:	IMDG:	IATA:
Packaging group:		
ADR/RID:	IMDG:	IATA:
Environmental hazards:		
ADR/RID: no	IMDG Marine pollutant: no	IATA: no

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#### SECTION 15: OTHER REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture  
Not available.

Chemical Safety Assessment: Not available.

#### SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.

Not Applicable

Other Special Considerations: Not available

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