

Safety information sheet

Version: 1.0 EN

Vitamin B2 - Riboflavin

Article number: D10256

This document has been prepared as a communication tool to inform downstream users about both the status of the substance under REACH and CLP, some of its essential properties and the guidance on safe use. An extended safety data sheet (SDS) is not required for this substance under Article 31 of REACH Regulation (EC) No 1272/2008, including the amending Regulation (EU) 2020/878. As a result, the format and content of this document does not comply with the framework for safety data sheets set out in Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.

1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	Vitamin B2 – Riboflavin
CAS number	83-88-5
EC number	201-507-1
REACH registration	-

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

Description/use	Riboflavin (vitamin B2) is a water-soluble B vitamin. For further information on specific applications, please contact us at the telephone number provided – we will be happy to put you in touch with the relevant specialist department.
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1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Address	Brookdeich 40 21029 Hamburg Germany
Telephone	+49 40 609 2387 60
E-Mail	info@distrebution.com

1.4 Emergency number

+49 40 609 2387 60 (Business hours: Mon - Thu: 8 a.m.- 5 p.m. / Fri: 8 a.m. – 4 p.m.)

2 Potential hazards

2.1 Classification of the substance or mixture

In accordance with Regulation (EC) No 1272/2008 (CLP), riboflavin (vitamin B2) is not classified as a hazardous substance or mixture. The substance is also not classified as hazardous under Directive 67/548/EEC

2.2 Label elements

The product is not subject to labelling requirements under the applicable EC directives and national regulations.

2.3 Other hazards

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3 Composition/information on ingredients

Chemical	Vitamin B2 – Riboflavin
characterization:	
CAS number	83-88-5
EC number	201-507-1
REACH registration	-
Hazardous ingredients	-
Nanoparticles	No nanoparticles according to Regulation (EU) 2018/1881

4 First-aid measures

4.1 Description of first-aid measures

After eye contact

Rinse eyes with water as a precaution.

After skin contact

Wash thoroughly with soap and water.

Inhalation or ingestion

If inhaled, move the affected person to fresh air. If breathing has stopped, perform artificial respiration. Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

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5 Firefighting measures

5.1 Extinguishing agents

Suitable extinguishing agents

Water spray, alcohol-resistant foam, dry extinguishing agents, carbon dioxide (CO₂)

Unsuitable extinguishing agents

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5.2 Special hazards arising from the substance or mixture

A fire can produce carbon monoxide and nitrogen oxides (NO_x).

5.3 Advice fo firefighters

If necessary, wear a self-contained breathing apparatus.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid creating dust. Do not breathe in vapours, mists or gases.

6.2 Environmental precautions

Do not allow this to enter the drainage system.

6.3 Methods and material for containment and cleaning up

Sweep up or mop up and collect in suitable, sealed containers for disposal.

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 13 for information on disposal.

7 Handling and storage

7.1 Precautions for safe handling

Ensure that adequate extraction is provided in areas where dust is generated.

Observe standard fire prevention measures.

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7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed, light-resistant containers and protect from light.

7.3 Specific end uses

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8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

Components with occupational exposure limits: no data available.

8.2 Limitation and monitoring of exposure

8.2.1 Appropriate engineering controls

If exposure is possible, consult an occupational health and safety specialist. In emergencies or where exposure levels are unknown, use a self-contained breathing apparatus with a full-face mask and positive pressure. Air-purifying respirators do not provide protection in low-oxygen atmospheres.

8.2.2 Personal protective equipment

Respiratory protection

If necessary, use NIOSH/MSHA-approved or EN 136-approved respiratory protective equipment.

Hand protection

Wear protective gloves. Check gloves before use. Dispose of contaminated gloves in accordance with applicable regulations. Wash and dry hands after use. The gloves must comply with the requirements of Directive 89/686/EEC and EN 374.

Eye protection

Use tested and approved eye protection in accordance with EN 166 (EU) or equivalent standards.

Other protective measures

Select appropriate protective clothing based on the type, concentration and quantity of the substance, as well as the conditions at the workplace.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Crystalline powder
Colour	Yellow to yellow-orange
Odour	No data available
Odour threshold	No data available
Melting point	290–291°C (decomposes)
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gaseous)	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour density	No data available
Vapour pressure	No data available
Relative density	No data available
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	No data available
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Viscosity	No data available

9.2 Other information

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10 Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

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10.6 Hazardous decomposition products

No data available

11 Toxicological information

11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008

Acute oral toxicity	LD50 (oral, rat) > 10,000 mg/kg
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Skin corrosion/irritation	No skin irritation
Serious eye damage/irritation	No eye irritation
Respiratory/skin sensitisation	No known sensitising effects
Germ cell mutagenicity	Criteria for classification not met
Carcinogenicity	Not carcinogenic
Reproductive toxicity	Criteria for classification not met
Developmental/teratogenic effects	No data available
Specific target organ toxicity after single exposure	No known effects
Specific target organ toxicity after repeated exposure	No known effects
Aspiration hazard	No data available

11.2 Information on other hazards

Endocrine-disrupting properties

No data available

Delayed and immediate effects as well as chronic effects

No data available

Other information

No data available

12 Environmental information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

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12.4 Mobility in soil

No data available

12.5 Results of the PBT and vPvB assessment

The substance is not a PBT/vPvB.

12.6 Endocrine-disrupting properties

No data available

12.7 Other harmful effects

Do not allow large quantities to enter watercourses

13 Disposal instructions

13.1 Waste treatment methods

Product disposal

Dispose of the product in accordance with local, regional, national and international regulations. Waste must be treated at authorised waste disposal facilities.

Disposal of packaging

Dispose of contaminated packaging in the same way as unused product.

14 Transport information

14.1 Transport ADR/RID/ADN

No data available

14.2 Transport IMDG

No data available

14.3 Transport ICAO-TI / IATA

No data available

14.4 Packing group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

14.7 Transport in bulk by sea according to IMO regulations

No data available

15 Legislation

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

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006. No further specific information is available.

15.2 Chemical safety assessment

No substance safety assessment has been carried out for this substance.

16 Other information

16.1 Abbreviations and acronyms

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

RID – Regulations concerning the International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA – International Air Transport Association

GHS – Globally Harmonised System of Classification and Labelling of Chemicals

EINECS – European Inventory of Existing Commercial Chemical Substances

CAS – Chemical Abstracts Service

EC50 – Effective concentration, 50%

LC50 – Lethal concentration, 50%

LD50 – Lethal dose, 50%

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

PBT – Persistent, bioaccumulative and toxic

vPvB – Very persistent and very bioaccumulative

16.2 SVHC

The substances on the ECHA list (<http://echa.europa.eu/en/candidate-list-table>) are neither expected to be present in our products nor are they intentionally used in the production process. Our products do not come into contact with these substances during production. However, it is not possible to completely rule out traces of these substances: due to natural impurities or raw material-related properties, an unintentional content of less than 0.1% cannot be completely ruled out.

16.3 Note for users

The information in this data sheet is based on our current knowledge at the time of the last revision. The user is responsible for checking the suitability and completeness of the information in relation to the specific use of the product.

This document does not constitute a guarantee for specific properties of the product. As we have no direct influence on the use of the product, the user is obliged to comply with all applicable laws, regulations and safety and hygiene provisions on his own responsibility. We accept no liability for improper use. Personnel entrusted with the handling of chemicals must be appropriately trained.