

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

SDS Reference Number: 05580

□□ □□ □□: 4/9/2014 □□ □□ □□: 2/11/2025 □□ □□ □□: 4/9/2015 □□ □□: 1.0

□□ 1: □□□□ □□ □□ □□

1.1. □□□□

□□ □□

: □□

□□ □□

: RIBOFLAVIN FOR BIOCHEMISTRY

EC □□

: 201-507-1

CAS □□

: 83-88-5

□□ □□

: 05580

□□ □□

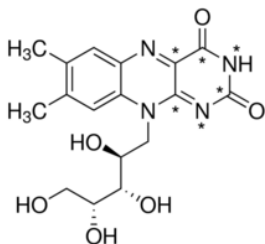
: Heterocyclic organic compound

□□ □□

: C17H20N4O6

□□ □□

:



□□ □□

: Lactoflavin, Vitamin G, Vitamin B2

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□

□□□□/□□□□ □□

: Laboratory chemicals, Manufacture of substances

1.3. □□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai

INDIA

T +91 22 6663 6663, F +91 22 6663 6699

info@lobachemie.com, www.lobachemie.com

1.4. □□□□□□

□□ □□ □□

: + 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP] □□ □□ □□

□□□□ □□

□□□□□, □□ □□ □ □□□□□□□

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□ [CLP]

□□ □□ □□

2.3. □□ □□

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

RIBOFLAVIN FOR BIOCHEMISTRY

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ 3: □□□□□ □□ □ □□□

3.1. □□□□

□□ □□ : □□□□□□

□□	□□□□	%
RIBOFLAVIN	CAS □□: 83-88-5 EC □□: 201-507-1	100

□□ 4: □□□□□□

4.1. □□□□ □□

□□ □□ □□ : If you feel unwell, seek medical advice.
□□□□ □ : □□□ □□□ □□ □□□ □□□ □□ □□□ □□□□. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
□□□ □□□□ □ : □□□ □□□ □□ □□□□ □□□□. □□ □□□ □□□□: □□□□ □□/□□□□ □□□□. Wash skin with plenty of water.
□□ □□□□ □ : □□□□ □□□□□□ □□□□□. □□ □□□□. □ □□ □□ □□□□ □□□□. □□ □□□ □□□□: □□□ □□□/□□□□ □□□□.
□□□ □ : Rinse mouth out with water. If you feel unwell, seek medical advice. □□□□ □□□ □□□□(□□)□ □□□ □□□□.
First-aid measures for first aider : □□□□ □□□□ □□□ □□ □□ □□□□ □□□□ □□□□.

4.2. □□ □ □□□ □□ □□□ □□ □ □□

□□ □ □□/□□ : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.
□□ □□ □ □□/□□ : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
□ □□ □ □□/□□ : None under normal conditions. Dust from this product may cause eye irritation.
□□ □ □□/□□ : None under normal conditions.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

□□ 5: □□·□□□ □□□□

5.1. □□□ □□□

□□□ □□□ : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam.
□□□□ □□□ : Do not use a heavy water stream.

5.2. □□□□□□□ □□□ □□ □□□

□□ □□ : No fire hazard.
□□ □□ : No direct explosion hazard.
□□ □ □□□ □□□ □□ : Toxic fumes may be released.

5.3. □□□□ □□□□ □ □□□□

□□ □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
□□ □□ □ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□□□□□. Complete protective clothing.

RIBOFLAVIN FOR BIOCHEMISTRY

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ 6: □□□□□ □□□□□

6.1. □□□ □□□□ □□ □□□ □□□□ □□□□

- □□ : □□□ □□□ □□ □□□□□ □□ □□□ □□, □□□□□ □□□□ □□ □□□□□□□□.
- □□ □□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area. Evacuate unnecessary personnel.
- □□ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□□. □□ □□□ □□□ □□ 8: "□□□□ □ □□□□□" □□ □□□□□.
- □□ : Stop release. Ventilate area. Evacuate unnecessary personnel.

6.2. □□□ □□□□ □□ □□□ □□□□

□□□□ □□□□ □□□.

6.3. □□ □□ □□ □□

- : Using a clean shovel, put the material in a dry container and cover without compressing it.
- □□ : Mechanically recover the product. Clear up rapidly by scoop or vacuum.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

□□ 7: □□ □ □□□□

7.1. □□□□□□

- □ □□□□□ □□ □□ : □□□□ □□ □□□□□ □□ □□□ □□□□ □□.
- : Ensure good ventilation of the work station. □□ □□□□ □□□□□. □, □□, □□□□ □□ □□□ □□□.
- □□ : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□. Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

- □□ : Keep in a cool, well-ventilated place away from heat.
- □□ : Store in original container. □□□ □□□ □□□□□□. □□□ □□□ □□□□□□. □□□□ □□□□□.
- : Store always product in container of same material as original container.

7.3. □□ □□ □□

□□ □□

□□ 8: □□□□ □ □□□□□

8.1. □□ □□ □□

□□ □□

8.2. □□□□

- □□□ □□
- □□□ □□ : Ensure good ventilation of the work station.
- □□□
- □□□ : Wear recommended personal protective equipment.

RIBOFLAVIN FOR BIOCHEMISTRY

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□ □□ □□:



□□ □□ □□ □□

□□ □□:

Chemical goggles or safety glasses

Skin protection

□□ □□:

Wear a mask

□□ □□:

Protective gloves

□□ □□ □□

□□ □□ □□:

Wear appropriate mask

□□ □□ □□

□□ □□ □□:

□□□□ □□□□ □□□□.

□□ 9: □□□□□ □□

9.1. □□□□ □□□□□ □□□ □□ □□

□□ □□ □□	: □□
□□	: Yellow to orange.
□□	: Crystalline powder.
□□□	: 376.37 g/mol
□□	: Odourless.
□□ □□	: □□□□
□□□	: 280 °C (Decomposes)
□□□	: □□□□
□□ □□□□ □□□ □□	: □□□□
□□□	: □□□
□□ □□□	: □□□□
□□ □□□	: □□□□
□□□	: □□□□
□□□□ □□	: □□□□
□□ □□	: 280 °C
pH	: 5.5 – 7.2 at 20 °C
pH □□	: 0.07 g/L
□□(□□□)	: □□□□
□□□	: □: Insoluble in water
Partition coefficient n-octanol/water (Log Kow)	: □□□□
□□□	: < 0.001 hPa
50°C □□□□ □□□	: □□□□
□□	: □□□□
□□	: □□□□
20°C □□□□ □□ □□ □□	: □□□□
Particle size	: □□□□

9.2. □ □□ □□□□

□□ □□

RIBOFLAVIN FOR BIOCHEMISTRY

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

□□ 10: □□□ □□□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □□□

□□□□. Air contact. Moisture.

10.5. □□□ □□□

□□ □□

10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

□□ 11: □□□ □□ □□

11.1. □□ (EC) No 1272/2008 □□□□, □□□ □□□ □□ □□

□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□□ □□ □□□	:	□□□□ □□ pH: 5.5 – 7.2 at 20 °C
□□ □ □□ □□ □□□	:	□□□□ □□ pH: 5.5 – 7.2 at 20 °C
□□□ □□ □□ □□□	:	□□□□ □□
□□□□ □□□□	:	□□□□ □□
□□□	:	□□□□ □□
□□□□	:	□□□□ □□
□□ □□□□ □□ (1□ □□)	:	□□□□ □□
□□ □□□□ □□ (□□ □□)	:	□□□□ □□
□□ □□□	:	□□□□ □□

RIBOFLAVIN FOR BIOCHEMISTRY (83-88-5)

□□(□□□)	□□□□
---------	------

11.2. □□ □□ □□

□□ □□

□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
□□ □□□□ □□□	:	□□□□ □□
□□ □□□□ □□□	:	□□□□ □□

RIBOFLAVIN FOR BIOCHEMISTRY

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

12.2. □□□ □□□□

RIBOFLAVIN FOR BIOCHEMISTRY (83-88-5)

□□□ □□□□	□□ □□ □□
----------	----------

12.3. □□ □□□

□□ □□

12.4. □□ □□□

□□ □□

12.5. PBT □ vPvB □□ □□

□□ □□

12.6. □□□ □□ □□

□□ □□

12.7. □□ □□ □□

□□ □□

□□ 13: □□□ □□□□

13.1. □□□ □□□

- □□(□□□) : Disposal must be done according to official regulations.
- □□□ : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- □□ □□ □□ : Disposal must be done according to official regulations.
- /□□ □□ □□□□ : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
- □□ : Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

□□ □□□□ □□□□

14.2. UN □□ □□□

- □□□ (ADR) : Not regulated
- □□□ (IMDG) : Not regulated
- □□□ (IATA) : Not regulated
- □□□ (ADN) : Not regulated
- □□□ (RID) : Not regulated

14.3. □□□□□ □□□ □□

ADR
□□□□□ □□□ □□ (ADR) : Not regulated

IMDG
□□□□□ □□□ □□ (IMDG) : Not regulated

IATA
□□□□□ □□□ □□ (IATA) : Not regulated

RIBOFLAVIN FOR BIOCHEMISTRY

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

ADN

□□□□□ □□□ □□ (ADN) : Not regulated

RID

□□□□□ □□□ □□ (RID) : Not regulated

14.4. □□□□

□□ □□ (ADR) : Not regulated
□□ □□ (IMDG) : Not regulated
□□ □□ (IATA) : Not regulated
□□ □□ (ADN) : Not regulated
□□ □□ (RID) : Not regulated

14.5. □□ □□□□

□□ □□ □□□□ : □□ □□ □□ □□

14.6. □□□□ □□ □□ □□□□

□□ □□
Not regulated

□□ □□
Not regulated

□□ □□
Not regulated

□□ □□ □□
Not regulated

□□ □□
Not regulated

14.7. □□□□□□ (IMO) □□ □□ □□ □□

□□□□

□□ 15: □□ □□□□

15.1. □□, □□ □□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

REACH □□□ XVII □□□□ □□

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□) □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□ □□ □□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

POP □□ (□□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□ □□ (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

RIBOFLAVIN FOR BIOCHEMISTRY

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□□□ □□ (2019/1148)

□□ □□□□ □□(□□ □□□□ □□ □ □□□ □□ □□ EU 2019/1148) □□ □□ □□□□ □□

□□ □□□□ □□ (273/2004)

□□ □□□□ □□ □□ □□ □□□□ □□(□□ □ □□□□ □□ □□ □□□□ □□ □□ □□ □ □□□ □□ □□ EC 273/2004)

□□ □□

□□

VOC ordinance (ChemVOCFarbV) :

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□ □□ □□(12. BImSchV) : □□ □□ □□(12. BImSchV) □□ □□ □□

□□□□

SZW-lijst van kankerverwekkende stoffen : □□□ □□□□ □□□□□.

SZW-lijst van mutagene stoffen : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

□□ 16: □ □□ □□□□

□□ □ □□□□:	
ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

