Hard Eight Nutrition, LLC

7511 Eastgate Road, Henderson, NV 89011 USA | Telephone: 702-293-0222

SAFETY DATA SHEET

Section 1: Identification

Product Name: Riboflavin (B2)
Chemical Name/Synonyms: Vitamin B2, Riboflavin
Company: Hard Eight Nutrition, LLC Dba BulkSupplements.com
7511 Eastgate Road, Henderson, NV 89011 USA Telephone: 702-293-0222

In emergency call 911.
For information about this SDS, use this department contact phone#: 702-293-0222

Section 2: Hazard(s) Identification

Classification of the substance or mixture
Not a hazardous substance or mixture**.**
GHS Label elements, including precautionary statement
Not a hazardous substance or mixture**.**
Hazards not otherwise classified (HNOC) or not covered by GH- None

Section 3: Composition/ Information on Ingredients

Chemical Name	Chemical formula	CAS#	Conc.
Lactoflavin Vitamin G (−)-Riboflavin Vitamin B2	$C_{17}H_{20}N_4O_6$	83-88-5	≤100%

Section 4: First-Aid Measures

After skin contact: Wash off with soap and plenty of water.
After eye contact: Flush eyes with water as a precaution
After inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NOx
Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary

Section 6: Accidental Release Measures

Personal precautions: Avoid dust formation. Avoid breathing vapours, mist or gas
Measures for environmental protection: No special environmental precautions required
Measures for cleaning/collecting: Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling: Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
Storage: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature. Keep in a dry place. Storage class (TRGS 510): 13: Non-Combustible Solids

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Contains no substances with occupational exposure limit values.
General protective and hygienic measures: General industrial hygiene practice.
Breathing equipment: 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).
Protection of hands: 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Section 9: Physical and Chemical Properties

Form: Powder
Color: Yellow Orange
pH: ca.6
Melting point/melting range: 290 °C (554 °F)
Boiling point/boiling range: No data
Flash point: No data
Evaporation rate: No data
Flammability: No data
Upper/lower flammability or explosive limits: No data
Auto ignition temperature: No data
Danger of explosion: No data
Vapor pressure: < 0.001 hPa
Vapor density: No data
Relative density: No data
Solubility in/Miscibility with water: No data

Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions
Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)
Incompatibility: Strong oxidizing agents, Reducing agents, Bases, Calcium, Metallic salt

Section 11: Toxicological Information

Acute toxicity
LD50 Oral - Rat - > 10,000 mg/kg
Remarks: (External MSDS)
LC50 Inhalation - Rat - 4 h - > 5.4 mg/l
Remarks: (External MSDS)

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation

Remarks: (External MSDS)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
Remarks: (External MSDS)

Respiratory or skin sensitization
In animal experiments:
Result: negative
Remarks: (External MSDS)

Germ cell mutagenicity
Ames test Salmonella typhimurium
Result: negative
(National Toxicology Program)

Carcinogenicity
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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Specific target organ toxicity - single exposure
Specific target organ toxicity - repeated exposure
Aspiration hazard
Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Substances which occur in nature Handle in accordance with good industrial hygiene and safety practice.

Section 12: Ecological Information (non-mandatory)

Toxicity
Toxicity to fish
static test LC50 - Danio rerio (zebra fish) - > 10,000 mg/l - 96 h (OECD Test Guideline 203)
Remarks: (above the solubility limit in the test medium)

Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - > 47.4 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to bacteria
EC50 - Pseudomonas putida - > 10,000 mg/l - 0.5 h Remarks: (above the solubility limit in the test medium)(External MSDS)

Persistence and degradability
Biodegradability aerobic - Exposure time 28 d

Bioaccumulative potential

Mobility in soil

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Section 13: Disposal Considerations (non-mandatory)

Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

Section 14: Transport Information (non-mandatory)

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

Section 15: Regulatory Information (non-mandatory)

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards
No SARA Hazards
Massachusetts Right to Know Components
No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components Riboflavin CAS-No. 83-88-5
New Jersey Right to Know Components Riboflavin CAS-No. 83-88-5
California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

The information provided in this safety data sheet is the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SDS date of preparation/update: 7/23/2020