

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name: Melatonin (USP Grade)
Synonyms: N-Acetyl-5-methoxytryptamine
CAS Number: 73-31-4
Relevant Identified Uses: Laboratory chemicals, API reference standards, manufacturing of supplements. For professional use.

Supplier Details: Anax Laboratories
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2. HAZARDS IDENTIFICATION

2.1 GHS Classification

- Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

2.2 GHS Label Elements

Signal Word: None
Hazard Statements: Not applicable.
Precautionary Statements:

- **P261:** Avoid breathing dust/fume/gas/mist/vapors/spray.
- **P280:** Wear protective gloves/protective clothing/eye protection.
- General precautionary measures are advised when handling pure pharmaceutical ingredients.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Molecular Formula	Molecular Weight	Concentration
Melatonin	73-31-4	C ₁₃ H ₁₆ N ₂ O ₂	232.28 g/mol	≥99.0% (USP)

4. FIRST AID MEASURES

General Advice: Consult a physician if you feel unwell. Show this safety data sheet to the doctor in attendance.

If Inhaled: Move the victim to fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms persist.

In Case of Skin Contact: Wash off with soap and plenty of water. Remove contaminated clothing. Consult a physician if irritation develops.

In Case of Eye Contact: Flush eyes with water as a precaution. Remove contact lenses if present and easy to do. Continue rinsing.

If Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical advice.

5. FIREFIGHTING MEASURES

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

Special Hazards: Carbon oxides, Nitrogen oxides (NOx) may be released under fire conditions.

Advice for Firefighters: Wear self-contained breathing apparatus (SCBA) and full protective gear for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Wear appropriate personal protective equipment.

Environmental Precautions: Do not let product enter drains. Discharge into the environment must be avoided.

Methods for Clean-up: Sweep up and shovel using non-sparking tools. Keep in suitable, closed containers for disposal. Clean the affected area carefully.

7. HANDLING AND STORAGE

Precautions for Handling: Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged or repeated exposure. Normal measures for preventive fire protection.

Conditions for Storage: Store in a cool, dry, and well-ventilated place. Keep container tightly closed.

Light Sensitivity: Protect from direct light. Recommended to store in opaque or dark containers.

Recommended Temp: 2°C - 8°C or room temperature (as per specific stability guidelines).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Contains no substances with occupational exposure limit values established by regulatory bodies.

Engineering Controls: General industrial hygiene practice. Ensure proper ventilation.

Personal Protective Equipment (PPE):

- **Eye/Face Protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Skin/Hand Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
- **Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.
- **Respiratory Protection:** Respiratory protection is not strictly required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white crystalline powder
Odor	Odorless
Melting Range	116.0°C - 118.0°C
Solubility	Slightly soluble in water; Soluble in ethanol, methanol, ethyl acetate.
pH	No data available
Loss on Drying	≤ 0.5%
Residue on Ignition	≤ 0.1%

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Reactivity: No data available.

Conditions to Avoid: Direct sunlight, extreme heat, moisture.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomp.: Formed under fire conditions: Carbon oxides, Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	LD50 Oral - Rat - > 3,200 mg/kg. Generally recognized as having low acute toxicity.
Skin Corrosion/Irritation:	No data available. May cause mild mechanical irritation.
Eye Irritation:	No data available. Dust may cause mild eye irritation.
Respiratory/Skin Sensitization:	No data available.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	Not identified as a probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available. Not classified as environmentally hazardous.
Persistence/Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:	Offer surplus and non-recyclable solutions to a licensed disposal company. Normal disposal as non-hazardous waste may be permitted depending on local regulations.
Contaminated Packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

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

This substance is considered non-hazardous for transport.

15. REGULATORY INFORMATION

Safety Regulations:	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and standard GHS guidelines.
SARA 302/313 Components:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 or 313.

16. OTHER INFORMATION

Disclaimer:

The information provided in this Safety Data Sheet is correct to 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. Anax Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.

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