

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 18 Oct 2022

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

1.1. Product name:

Melatonin

1.1. Catalog No.:

673087

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

GHS08 health hazard Repr. 1B H360 May damage fertility or the unborn child.

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2. Label elements

2.2.1. Pictogram





2.2.2.



Labelling according to Regulation (EC) No 1272/2008
 The substance is classified and labelled according to the CLP regulation.

Signal word Danger

Hazard statements
 H319 Causes serious eye irritation.
 H360 May damage fertility or the unborn child.

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information:

Restricted to professional users. 2.3 Other hazards

- Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Substances

· CAS No. Description 73-31-4 Melatonin

- · Identification number(s) None · EC number: 200-797-7 · RTECS: AC5955000

3.1.1. Formula

C13H16N2O2

3.1.2. Molecular Weight (g/mol)

232.28



73-31-4

4. FIRST AID MEASURES

- 4.1 Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
 After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

 After swallowing: Rinse mouth. Do not induce vomiting.

 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters

 Protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up:
 Dispose of contaminated material as waste according to item 13.

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling Store in cool, dry place in tightly closed receptacles. Information about fire and explosion protection: No special measures required. 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles:



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Please refer to the manufacturers certificate for specific storage and transport temperature conditions.

Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.
 Additional information: Lists used were valid at the time of SDS preparation.

8.2 Exposure contration: Elses does not a second se

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

Not required.

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

Protective gloves

Material of gloves Butyl rubber, BR

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties · General Information

· Appearance: Form: Solid

Colour: Off white
Odour: Odourless
Odour threshold: Not determined.

· pH-value: Not applicable.

Change in condition

Melting point/freezing point: 115-121 °C
Initial boiling point and boiling range: Not determined.
Flash point: Not applicable.
Flammability (solid, gas): Not determined.
Ignition temperature: Not determined

Decomposition temperature: Not determined.

 Auto-ignition temperature: Not determined. Explosive properties: Not determined.
Explosion limits:

Lower: Not determined. Upper: Not determined.

· Vapour pressure: Not applicable.



Density: Not determined.
Relative density Not determined.
Vapour density Not applicable.

Evaporation rate Not applicable.
Solubility in / Miscibility with Chloroform, Methanol

water: Not determined.

Partition coefficient: n-octanol/water: Not determined.

 Viscosity:
 Dynamic: Not applicable. Kinematic: Not applicable.

9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.1 Reactivity
Stable under normal conditions.
No further relevant information available.
10.2 Chemical stability Stable under normal conditions.
Thermal decomposition / conditions to be avoided:
Formation of toxic gases is possible during heating or in case of fire.

10.3 Possibility of hazardous reactions No dangerous reactions known. 10.4 Conditions to avoid Heat.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products:
Formation of toxic gases is possible during heating or in case of fire.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.
 LD/LC50 values relevant for classification:
 Oral LD50 >3,200 mg/kg (rat)
 Primary irritant effect:

Primary Inflam effect.
 Skin corrosion/irritation Based on available data, the classification criteria are not met.
 Serious eye damage/irritation
 Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
Oral Reproductive 27 mg/kg (rat)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard Based on available data, the classification criteria are not met.



12.1 Toxicity

· Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

Uncleaned packaging:

· Recommendation: Dispose of in accordance with national regulations.

14. TRANSPORT INFORMATION

14.1 UN-Number

14.1 ON-NUMBER

ADR, IMDG, IATA Not applicable

ADR, IMDG, IATA Not applicable

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class Not applicable

Class Not applicable
14.4 Packing group
ADR, IMDG, IATA Not applicable
14.5 Environmental hazards: Not applicable.
14.6 Special precautions for user Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
UN "Model Regulation": Not applicable

15. REGULATORY INFORMATION

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!