



Safety Data Sheet: Monascin

1. Identification of the substance/mixture and of the Company

1.1. Product identifiers

Product name	<i>Monascin</i>
Product Code	<i>MSC</i>
CAS #	<i>21516-68-7</i>
EC Number #	<i>Not of ECHA as on 10-2022</i>
Synonyms	<ul style="list-style-type: none"> • <i>Monascin</i> • <i>Monascusone B</i>
Formula	<i>C₂₁H₂₆O₅</i>
RTECS	<i>N.A.</i>
Molecular weight	<i>358.40</i>
Substance? Mixture?	<i>Substance</i>

1.2. Intended uses of the substance or mixture and uses advised against

1.2.1. Intended use:	<ul style="list-style-type: none"> • <i>Research and development.</i> • <i>Laboratory reagent.</i> • <i>Reference material.</i> • <i>Analytical standard</i> • <i>Starting material for manufacturing of chemicals</i>
1.2.2. Uses advised against:	<ul style="list-style-type: none"> • <i>Not a drug,</i> • <i>Not food additive</i> • <i>Not to be used in humans or animals.</i>

1.3. Contact

1.3.1. Details of the supplier of the safety data sheet

FERMENTEK Ltd <i>4 Yatziv street, POB 4712</i> <i>Jerusalem 97800, Israel</i>	<i>Tel: +972 2 5853953</i> <i>Fax: +972 2 5853943</i> <i>eMail: fermentek@fermentek.com</i> <i>Website: www.fermentek.com</i>
<i>This company is the manufacturer of the product, and the supplier of the safety data sheet</i>	



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2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1. GHS Classification According to EU Reg. 1272/2008 and US OSHA 1910.1200)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
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2.2. GHS Label elements, including precautionary statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
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2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

3. Composition/information on ingredients

Substance	
Substance name:	<i>Monascin</i>
Concentration	<i>100%</i>
	<i>CAS Registry #: 21516-68-7</i> <i>EC#: Not of ECHA</i>
	<i>Molecular Formula: C₂₁H₂₆O₅</i> <i>Molecular Weight: 358.40</i>
Classification	<i>Not hazardous</i>
Mixture?	<i>Substance</i>

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	<i>Show this safety data sheet to the doctor in attendance.</i>
Eye contact:	<i>Flush eyes with water as a precaution.</i>
Skin Contact:	<i>Wash off with soap and plenty of water.</i>
Ingestion:	<i>Never give anything by mouth to an unconscious person. Rinse mouth with water.</i>
Inhalation:	<i>No data available</i>

4.2. Most important symptoms and effects, both acute and delayed

Skin Contact:	<i>No data available</i>
Eye contact:	<i>No data available</i>
Ingestion:	<i>No data available</i>
Inhalation:	<i>No data available</i>

4.3. Indication of any immediate medical attention and special treatment needed

	<i>No data available</i>
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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	<i>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</i>
Unsuitable extinguishing media	<i>None known</i>

5.2. Other information

Hazardous combustion products	<i>Carbon oxides,</i>
Advice for firefighters	<i>Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.</i>

6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions	<i>Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.</i>
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6.2. Environmental precautions

Environmental precautions	<i>No special environmental precautions required.</i>
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6.3. Methods and material for containment and cleaning up

	<i>Sweep up and shovel. Keep in suitable, closed containers for disposal.</i>
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7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:	<i>Provide appropriate exhaust ventilation at places where dust is formed Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.</i>
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7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions:	<i>Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Reportedly, Light sensitive. Store under inert gas. Store at -20 °C.</i>
Incompatible materials:	<i>None known based on information available.</i>

8. Exposure Controls/Personal Protection

8.1. Control parameters

Control parameters	<i>Components with workplace control parameters</i>
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8.2. Exposure controls

Appropriate engineering controls	<i>General industrial hygiene practice Showers, Eyewash stations, Ventilation systems Avoid contact with skin, eyes and clothing.</i>
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*Wash hands before breaks and immediately after handling the product.
Use fumehood for routine work.*

8.3. Personal protective equipment

[PPE=Personal Protection Equipment]	<i>The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.</i>
PPE: Respiratory protection	<i>Respiratory protection is not required. Where protection from nuisance levels of dusts is 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)</i>
PPE: Hand Protection:	<i>Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands</i>
PPE: Eye Protection:	<i>Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)</i>
PPE: Skin and Body Protection:	<i>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. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.</i>

9. Physical and chemical properties

9.1. Physical / chemical properties

Physical State at room temperature	<i>Crystalline Powder</i>
Color	<i>Light yellow</i>
Odor	<i>Odorless</i>
<i>No further safety relevant data are available</i>	

10. Stability and reactivity

Reactivity:	<i>No information available.</i>
Chemical stability:	<i>Stable under normal conditions.</i>
Conditions to avoid	<i>Heat, flames and sparks. Sunlight.</i>
Incompatible materials	<i>Strong reducers and oxidizers</i>
Possibility of Hazardous Reactions	<i>None under normal processing</i>
Hazardous decomposition products	<i>Carbon oxides</i>



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11. Toxicological information

11.1. Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.

11.1.1. Acute Toxicity	<i>No toxicity was observed in studies with animals.</i>
Skin corrosion/irritation:	<i>No data available</i>
Serious eye damage/eye irritation:	<i>No data available</i>
Respiratory or skin sensitization/corrosion:	<i>No data available</i>
11.1.2. CMR hazards	
Carcinogenicity	<i>Group 3: Not classified as human carcinogen 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.</i>
Germ cell mutagenicity:	<i>No data available</i>
Reproductive toxicity / Teratogenicity:	<i>No data available</i>
11.1.3. Other	
STOT-SE – single exposure (GHS):	<i>No data available</i>
STOT-SE – repeated exposure (GHS):	<i>No data available</i>
Aspiration hazard:	<i>No data available</i>

11.2. Additional information

RTECS number	<i>N.A.</i>
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12. Ecological Information

Eco-Toxicity	<i>No data available</i>
Other adverse effects	<i>No data available</i>

13. Disposal Considerations

13.1. Waste treatment methods

Waste from residues / unused products	<i>Dispose of in accordance with local regulations</i>
Contaminated packaging	<i>Dispose of as unused product</i>

14. Transport information

14.1. UN number, Proper Shipping Name, Transport Hazard Class, packing group

	<i>US DOT</i>	<i>IATA</i>	<i>IMDG</i>	<i>ADR/RID</i>
UN Number UN proper shipping name	<i>Not dangerous goods (Monascin)</i>	<i>Not dangerous goods (Monascin)</i>	<i>Not dangerous goods (Monascin)</i>	<i>Not dangerous goods (Monascin)</i>
Transport Hazard Class & Packing Group	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>	<i>Not dangerous goods</i>

14.2. Additional information

	<i>Not marine pollutant</i>
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Exempted quantities (EQ)	Not applicable
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15. Regulatory information

15.1. Safety, health, and environmental regulations/legislation

USA EPA / TSCA	<i>This product is not listed on the USA EPA TSCA (it is for research)</i>
EU ECHA Status	<i>This product is not registered with the EU ECHA ANNEX III: Not Listed REACH: Not preregistered REACH: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57)</i>
CA: DSL/NDSL Status	<i>This product is not listed on the Canadian DSL/NDSL</i>

15.2. Chemical Safety Assessment

<i>For this product a chemical safety assessment was not carried out</i>
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16. Other information

16.1. Department issuing this SDS

Quality systems and regulatory affairs

16.2. General 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 here is designed only as 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.*

16.3. The users'/employers' responsibility:

- *A risk assessment should be performed by the employer/user prior to use of this product.*
- *All recommendations included in this document, are advisory in nature.*
- *The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.*

16.4. Abbreviations and acronyms:

- 16.4.1. Acute Tox.: Acute toxicity
- 16.4.2. CAS: Chemical Abstracts Service (division of the American Chemical Society)
- 16.4.3. DOT: US Department of Transportation
- 16.4.4. EINECS: European Inventory of Existing Commercial Chemical Substances
- 16.4.5. Eye Dam.: Serious eye damage/eye irritation
- 16.4.6. HMIS: Hazardous Materials Identification System (USA)
- 16.4.7. IATA: International Air Transport Association
- 16.4.8. IMDG: International Maritime Code for Dangerous Goods
- 16.4.9. LC50: Lethal concentration, Median
- 16.4.10. LD50: Lethal dose, Median
- 16.4.11. NFPA: National Fire Protection Association (USA)
- 16.4.12. NIOSH: National Institute for Occupational Safety
- 16.4.13. OSHA: Occupational Safety & Health
- 16.4.14. PBT: Persistent, Bioaccumulative and Toxic
- 16.4.15. PEL: Permissible Exposure Limit
- 16.4.16. REL: Recommended Exposure Limit
- 16.4.17. Repr.: Reproductive toxicity
- 16.4.18. Skin Irrit: Skin corrosion/irritation
- 16.4.19. STOT RE: Specific target organ toxicity (repeated exposure)
- 16.4.20. TLV: Threshold Limit Value
- 16.4.21. vPvB: very Persistent and very Bioaccumulative



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16.5.No-Copyright statement



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This sort of document is but a compendium of common knowledge, published facts, and even the writing style is standard.

16.6.End of SDS