

## MATERIAL SAFETY DATA SHEET


### HELIOTROPIN NATURAL

#### 1. Identification

- Chemical name 3,4-Methylenedioxybenzaldehyde
- Synonyms Piperonylaldehyde
- Molecular Formula  $C_8H_6O_3$
- Molecular Weight 150.13
- CAS No. 120-57-0
- FEMA No. 2911
- Eines No. 204-409-7
- FDA 182.60
- CoE 104

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#### 2. Hazards identification

- **Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**  
Skin sensitisation (Category 1) H317
- **Label elements**  
**Labelling according Regulation (EC) No 1272/2008 [CLP]**  
Pictogram   
Signal word Warning  
Hazard statement(s)  
H317 May cause an allergic skin reaction  
Precautionary statement(s)  
P280 Wear protective gloves.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
Supplemental Hazard statements none
- **Other hazards** none

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#### 3. Composition/information on ingredients

- Heliotropin  $\geq 99\%$

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#### 4. First aid measures

- **Eye contact:**  
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.  
Get medical aid.
- **Skin contact:**

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Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

- **Inhalation:**  
Remove from exposure and move to fresh air immediately. Get medical aid.
  - **After ingestion:**  
Get medical aid. Wash mouth out with water.
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## 5. **Fire-fighting measures**

- **General Information:**  
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
  - **Extinguishing Media:**  
Use water spray, dry chemical, carbon dioxide, or chemical foam.
  - **Special method of fire-fighting:**  
Cool endangered containers with water spray; Containers may explode when heated.
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## 6. **Accidental release measures**

- **General Information:**  
Use proper personal protective equipment as indicated in Section 8.
  - **Spills/Leaks:**  
Vacuum or sweep up material and place into a suitable disposal container.
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## 7. **Handling and storage**

- **Handling:**  
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.
  - **Storage:**  
Keep in tightly closed container in a cool and dry place, protected from light and under Nitrogen
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## 8. **Exposure controls and personal protection**

- Technical measures                      Local exhaust ventilation necessary  
Take precautionary measures against electrostatic charging  
Processing in closed systems, if possible superposed by inert gas (e.g. nitrogen).
- Engineering Controls                      Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower..

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- Respiratory protection In case of olfactory nuisance: respirator with independent air supply or mask with activated charcoal filter
- Eyes Safety glasses
- Hand Protective gloves
- Skin Wear appropriate protective clothing to prevent skin exposure

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### 9. *Physical and chemical properties:*

- Form Crystals
- Color White
- Odor Floral, heliotrope
- pH value at 10g/l H<sub>2</sub>O N/A
- Boiling point 264 °C - lit.
- Flash point 65.62 °C
- Melting point 35 - 42 °C - lit.
- Explosive properties N/A
- Lower explosion limit N/A
- Upper explosion limit N/A
- Ignition temperature N/A
- Oxidizing properties N/A
- Vapor pressure N/A
- Solubility in water N/A
- Organic solvents 1 g in 4 ml 70% alcohol

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### 10. *Stability and reactivity*

- Chemical Stability Stable at room temperature in closed containers under normal storage and handling conditions.
- Conditions to Avoid Ignition sources, excess heat, freezing temperatures, confined
- Substances to be avoided Metals, strong oxidizing agents, strong bases.
- Hazardous decomposition Carbon dioxide, carbon monoxide.
- Hazardous Will not occur.

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### 11. *Toxicological information*

- Acute toxicity LD50 Oral - Rat - 2,700 mg/kg  
LD50 Dermal - Rat - > 5,000 mg/kg
- Sensitization No information available.
- Mutagenicity No information available.
- Other Studies See actual entry in RTECS for complete information.

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### 12. *Ecological information*

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- Toxicity  
Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 52 mg/l - 48 h  
Toxicity to algae ErC50 - Pseudokirchneriella subcapitata (green algae) - 31 mg/l - 72 h  
NOEC - Pseudokirchneriella subcapitata (green algae) - 1.1 mg/l - 72 h
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### 13. Disposal considerations

- Waste from residues Observe local/national regulations regarding waste disposal  
Incinerate in qualified installation with flue gas scrubbing
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### 14. Transport information

- **UN number**  
ADR/RID: - IMDG:- IATA:-
  - **Shipping Name**  
ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods
  - **Hazard Class**  
ADR/RID:- IMDG:- IATA:-
  - **Packing Group**  
ADR/RID:- IMDG:- IATA:-
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### 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
no data available
  - **Chemical Safety Assessment**  
no data available
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### 16. Other information

- Document Number B-N29110-10
- Creation Date May. 21, 21
- Revision 10.0
- Disclaimer The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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