

# MATERIAL SAFETY DATA SHEET

## TRANS-2-HEXENAL NATURAL

### 1. Identification

- Chemical name: trans-2-Hexenal
- Synonyms: Leaf aldehyde
- Molecular Formula: C<sub>6</sub>H<sub>10</sub>O
- Molecular Weight: 98.14
- CAS No.: 6728-26-3
- FEMA No.: 2560
- EINECS No.: 229-778-1
- FDA: 172.510
- CoE: 748

### 2. Hazards identification

- **Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

|                                     |      |
|-------------------------------------|------|
| Flammable liquids (Category 3)      | H226 |
| Acute toxicity, Oral (Category 4)   | H302 |
| Acute toxicity, Dermal (Category 3) | H311 |

- **Label elements**

**Labelling according Regulation (EC) No 1272/2008 [CLP]**

Pictogram



Signal word Danger

Hazard statement(s)

|      |                             |
|------|-----------------------------|
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed.       |
| H311 | Toxic in contact with skin  |

Precautionary statement(s)

|                    |  |
|--------------------|--|
| P210               | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P264               | Wash skin thoroughly after handling.   |
| P280               | Wear protective gloves/ protective clothing.   |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.   |
| P361 + P364        | Take off immediately all contaminated clothing and wash it before reuse.                       |
| P370 + P378        | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.           |

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Supplemental Hazard

Statements none

- **Other hazards** none
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### 3. **Composition/information on ingredients**

- T,2-Hexenal ≥98%
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### 4. **First aid measures**

- **Eye contact:**
    - Rinse immediately with tap water for 10 minutes open eyelids forcibly;
    - consult a physician if irritation persists
  - **Skin contact:**
    - Remove immediately contaminated clothes, wash affected skin with water and soap - do not use any solvents;
    - consult a physician if skin irritation persists
  - **Inhalation:**
    - Remove from exposure and move to fresh air immediately.
    - Get medical aid.
  - **Ingestion:**
    - If conscious and alert, rinse mouth and-drink 2-4 cupfuls of milk or water.
    - Get medical aid. induce vomiting.
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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 inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

- **Storage:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

Light sensitive. Store under inert gas.

**NITROGEN PROTECTION!** PURGE HEADSPACE WITH NITROGEN AFTER EACH OPENING. Keep in tightly closed container and store in **COOL** (5-10 °C) DARK AREA.

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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..
- 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:    Clear, liquid
- Color:    Pale yellow
- Odor    Strong, fruity-green, vegetable
- PH value at 10g/l H<sub>2</sub>O                      N/A
- Boiling point:                                    47 °C at 23 hPa - lit.
- Flash point:                                      38 °C - closed cup
- Melting point:                                    N/A
- Explosive properties:                          N/A
- Lower explosion limit:                        9.2 %(V)
- Upper explosion limit:                        1.6 %(V)

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- Ignition temperature: N/A
- Oxidizing properties: N/A
- Vapor pressure: 13 hPa at 20 °C
- Specific gravity @25°C: 0.841-0.850
- Solubility in water: no data available
- Organic solvents: 1 ml in 1 ml 95% alcohol

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## 10. Stability and reactivity

- Chemical Stability: Stable under recommended storage conditions.
- Conditions to Avoid: Light. Heat, flames and sparks.
- Substances to be avoided: Oxidizing agents, Strong bases, Strong reducing agents
- Hazardous decomposition: Carbon monoxide, carbon dioxide, acrid smoke and fumes
- Hazardous: Will not occur.

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## 11. Toxicological information

- Acute toxicity: LD50 Oral - rat - 780 mg/kg  
LD50 Dermal - rabbit - 600 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

- No information available

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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:1988                      IMDG:1988                      IATA:1988
- **Shipping Name**  
ADR/RID: ALDEHYDES, FLAMMABLE, TOXIC N.O.S. (Trans-hex-2-enal)  
IMDG: ALDEHYDES, FLAMMABLE, TOXIC N.O.S. (Trans-hex-2-enal)  
IATA: Aldehydes, flammable, toxic, n.o.s. (Trans-hex-2-enal)
- **Hazard Class**  
ADR/RID:3 (6.1)                      IMDG: 3 (6.1)                      IATA: 3 (6.1)
- **Packing Group**  
ADR/RID:III                      IMDG:III                      IATA:III

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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-N25600-09
- Creation Date: Jan. 10, 20
- Revision: 9.0
- 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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