

# MATERIAL SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907 /2006 (REACH)

Product: Cis-3-Hexenol Natural



**ARORA AROMATICS PVT. LTD.**

Natural Mint Products, Natural Essential Oils, Natural Isolates & Specialities

2 K.M. Stone, Moradabad Road, Sambhal-244302, (U.P.) INDIA

Phone : +91-5923-231924, 230624, 232373. Fax : +91-5923-231564

Email : aa@mentholcrystals.net.in, Website : www.aroraaromatics.com

Revision Date: 08.04.2019

Version: 3.0

## SECTION-1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

- 1.1 COMMERCIAL NAME : Nat. Cis-3-Hexenol
- 1.2 IUPAC Name : (Z)-Hex-3-en-1-ol
- 1.3 SUPPLIER: : ARORA AROMATICS PVT. LTD  
2 KM Stone, Moradabad Road  
Sambhal-244302 (U.P), India  
E-Mail : aa@mentholcrystals.net.in
- 1.4 EMERGENCY TELEPHONE : +91 5923 232373 (ARORA AROMATICS PVT. LTD.)

## SECTION-2: HAZARDS IDENTIFICATION

### 2.1 – Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008

Flammable Liquid, Category 3 - H226

Eye Irritating, Category 2 - H319

### 2.2 – Label elements

Hazard Pictograms



Signal word : Warning

### 2.3 Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

- Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P391 Collect spillage.

## SECTION-3: COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1 Substances or Mixture : Substance
- CAS No. Designation : 928-96-1 (CIS-3 HEXENOL)
- Identification number(s):
- EC number : 213-192-8
- Additional information:

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## SECTION-4: FIRST-AID MEASURES

- **EYE CONTACT**  
Rinse immediately with plenty of water for 10 minutes at least. Contact a physician if symptoms persist.
- **SKIN CONTACT**  
Wash thoroughly with soap and water, flush with plenty of water. Take off spoiled clothes. Contact physician if symptoms persist.
- **INGESTION**  
Wash the mouth with water; seek medical advice immediately.
- **INHALATION**  
Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
- **OTHERS**  
Take risk and safety phrases (section 15) into account.

## SECTION-5: FIRE-FIGHTING MEASURES

- **EXTINGUISHING MEDIA RECOMMENDED**  
CO<sub>2</sub>, foam, dry chemicals.
- **NON RECOMMENDED**  
Do not use direct water jet on burning material.
- **EXTINGUISHING PROCEDURES**  
Closed containers may build up pressure at elevated temperatures. If possible, containers should be cooled with a water spray.
- **FLAMMABILITY OF THE PRODUCT**  
Flammable liquid.
- **AUTO-IGNITION TEMPERATURE**  
Not available.
- **FLAMMABLE LIMITS**  
Not available.
- **PRODUCTS OF COMBUSTION**  
Not available.
- **FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES**  
Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.
- **EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCE**
  - ❖ **Risks of explosion of the product in presence of mechanical impact**  
Not available.



WHO-GMP, ISO 9001:2008, ISO 14001:2004, FSSC 22000:2013, HALAL, HACCP, FDA, KOSHER, FSSAI, CGMP in Food and Pharma & REACH Compliant.

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- ❖ **Risks of explosion of the product in presence of static discharge**  
Not available.

- **FIRE FIGHTING MEDIA AND INSTRUCTIONS**

- ❖ **Small Fire**  
Use dry chemical powder.
- ❖ **Large Fire**  
Use water spray, fog or foam. Do not water jet.

- **SPECIAL REMARKS ON FIRE HAZARDS**  
When heated to decomposition it emits acrid smoke and irritating fumes.
- **SPECIAL REMARKS ON EXPLOSION HAZARDS**  
Not available.

### ~~SECTION 6: ACCIDENTAL RELEASE MEASURES~~

- **PERSONAL PRECAUTIONS**  
Use individual protective equipment (waterproof boots, suitable protective clothing, and safety glasses). Prevent any contact with hot surfaces. Do not approach facing the wind.
- **ENVIRONMENT PRECAUTIONS**  
Keep away from drains, surface and groundwater and soil.
- **METHODS FOR CLEANING UP**  
Contain spilled material. Cover with an inert, non-combustible, inorganic absorbent material, or sweep up, and remove to an approved disposal container. Avoid open flames or other sources of ignition.

### ~~SECTION 7: HANDLING AND STORAGE~~

- **PRECAUTIONS IN HANDLING**  
Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.
- **STORAGE CONDITIONS**  
Store in cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Keep air contact to a minimum.
- **FIRE PROTECTION**  
Keep away from ignition sources and naked flame.

### ~~SECTION 8: EXPOSURE CONTROL~~

- **RESPIRATORY PROTECTION**  
Avoid to breathe directly on the product. Apply local ventilations when appropriate.
- **VENTILATION**  
Local exhaust preferred. General ventilation required.



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- **HAND PROTECTION**  
Avoid skin contact. Use chemical resistant gloves as needed.
- **EYE PROTECTION**  
Use safety glasses.
- **WORK / HYGIENIC PRACTICES**  
Wash hands with soap and water after handling.

## SECTION-9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear Mobile Liquid
Odor	:	strong, fresh, green grass odor
Color	:	Colorless
Flashpoint (°C)	:	59 °C Closed Cup
Boiling Point (°C)	:	156.5°C
Melting Point (°C)	:	Not Available
Vapor Pressure	:	0.63 mmHg at20°C
Volatility	:	Not Available
Flammability class	:	Combustible II estimated
Molecular formula	:	C6H12O
Molecular weight	:	100.16
Specific gravity	:	0.8400 - 0.9100 at 25°C

## SECTION-10: STABILITY AND REACTIVITY DATA

**Reactivity** : The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** : Material is stable under normal conditions.

**Possibility of hazardous Reactions** : No dangerous reaction known under conditions of normal use.

**Condition to Avoid** : Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** : Strong oxidizing agents.

**Hazardous decomposition products** : No hazardous decomposition products are known.



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## SECTION-11: TOXICOLOGICAL INFORMATION

- **ROUTES OF ENTRY**

Absorbed through skin. Eye contact.

- **TOXICITY TO ANIMALS (TOXOCITY DATA)**

❖ Oral Rat (LD50)	:	4650 mg/kg
❖ Intaperitoneal Rat (LD50)	:	600 mg/kg
❖ Skin Rabbit (LD50)	:	5000 mg/kg

- **CHRONIC EFFECTS ON HUMANS**

Not available

- **OTHER TOXIC EFFECTS ON HUMANS**

Slightly hazardous in case of skin contact (irritation), of ingestion, of inhalation.

- **SPECIAL REMARKS ON TOXICITY TO ANIMALS**

Not available

- **SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS**

May affect genetic material (mutagenic).

- **SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS**

- ❖ **Acute potential health effects**

- ✓ **SKIN**

May cause skin irritation.

- ✓ **EYES**

Causes eye irritation. May cause loss of corneal epithelium, corneal infiltration, release of pigment into the anterior chamber with deposits on the back of the cornea.

- ✓ **INHALATION**

May cause respiratory tract irritation.

- ✓ **INGESTION**

May cause gastrointestinal tract irritation. May affect behavior/central nervous system (mild stimulation followed by depression, twitching, spastic convulsions, ataxia), and respiration (slowed respiration).

## SECTION-12: ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

- **ACUTE TOXICITY (LC50)**

Fresh water fathead minnow 381mg/1 calculated LC50.

- **BIODEGRABLE 89.4% BIODEGRADATION AFTER 28 DAYS**

- **BIODEGRADATION TEST (OECD 30F)**

100 mg/1 readily biodegradable 77%.



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## SECTION-13: DISPOSAL CONSIDERATIONS

- **WASTE DISPOSAL**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## SECTION-14: TRANSPORT INFORMATION

- **DOT CLASSIFICATION**

Not a DOT controlled material (United States).

- **IDENTIFICATION**

Not applicable.

➤ **SPECIAL PROVISION FOR TRANSPORT**

	CLASS	PACKING GROUP	UN No.
ROAD (ADR/RID)	3	III	1987
AIR (IATA)	3	III	1987
SEA	3	III	1987

## SECTION-15: OTHER REGULATORY INFORMATION

- **OTHER REGULATIONS**

- ❖ **OSHA** : hazardous by definition of hazard communication standard (29 CFR 1910.1200).

- **OTHER CLASSIFICATIONS**

- ❖ **EU ADDITIONAL CLASSIFICATION**

✓ R10

- ❖ **RISK STATEMENT**

✓ **FLAMMABLE** : S16

- ❖ **DSCL (EEC)**

NA

- ❖ **HMIS (U.S.A.)**

✓ **HEALTH HAZARD** : NA

✓ **FIRE HAZARD** : NA

✓ **REACTIVITY** : NA

✓ **PERSONAL PROTECTION:** NA

- ❖ **NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)**

✓ **HEALTH** : NA

✓ **FLAMMABILITY** : NA

✓ **REACTIVITY** : NA

✓ **SPECIFIC HAZARDS** : NA

- ❖ **PROTECTIVE EQUIPMENT**

Lab coat. Wear appropriate respirator when ventilation is inadequate. Splash goggles.



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## SECTION-16: OTHER INFORMATION

References :

Other Special Considerations : None

Created : 8.04.2014

Last Updated : 08.04.2019

We believe the above information to be correct but we do not present it as all inclusive and as such should be used as a guide. **ARORA AROMATICS PVT. LTD.** shall not be held responsible for any damage or injury resulting from contact with the above.

“END OF MATERIAL SAFETY DATA SHEET”

QUALITY ASSURANCE



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