# SAFETY DATA SHEET

### **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

#### 1.1 - Product Identifiers

Catalog Name: ALR-045N

Description: trans-2-Hexenal diethyl acetal

CAS No.: 67746-30-9

# 1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

## 1.3 - Supplier Details

Company: AccuStandard, Inc.

125 Market St.

New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.

1-203-502-7070 (USA)

+001-203-502-7070 (International)

24 hours / 7 days a week

# **SECTION 2 - HAZARDS IDENTIFICATION**

#### 2.1 - GHS Label Elements



Signal Word: Warning

## **Hazard Codes:**

H227 - Combustible. (Flammable liquids, category 4)

H302 - Harmful if swallowed. (Acute toxicity, oral, category 4)

H315 - Irritating to skin. (Skin corrosion/irritation, category 2)

H335 - May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

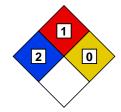
### **Precautionary Codes:**

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

P235 - Store in a cool dry place.

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





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## **SECTION 2 - HAZARDS IDENTIFICATION** - continued

#### 2.1 - GHS Label Elements - continued

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P340 - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

P352 - Skin contact: Wash thoroughly with soap and water. Get medical attention if irritation develops or persists.

#### 2.2 - Other Hazards

## 2.2.1 - Symptom of Exposure Health/Environment

Combustible. (Flammable liquids, category 4)

To the best of our knowledge, no specific human health toxicity information is available for this product. However, exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices when handling this product.

#### 2.2.2 - Potential Health Effects

May be irritating to eyes.

Irritating to skin. (Skin corrosion/irritation, category 2)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

May be harmful if inhaled. (Acute toxicity, inhalation, category 5)

Harmful if swallowed. (Acute toxicity, oral, category 4)

#### 2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

# 2.2.4 - Carcinogenicity

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

### **SECTION 3 - COMPOSITION / ANALYTES DATA**

Description: trans-2-Hexenal diethyl acetal

Synonyms: trans-2-Hexenal diethyl acetal; 1,1-Diethoxy-trans-2-hexene; (2E)-1,1-Diethoxy-2-hexene;

(E)-1,1-Diethoxyhex-2-ene

Molecular Weight: 172.27

Molecular Formula: C10H20O2

EC#: 266-989-8

			ACGIH -TLV (mg/m³)			OSHA -PEL (mg/m³)		
Analyte	CAS#	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin
trans-2-Hexenal diethyl acetal	67746-30-9	100.000						

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### **SECTION 4 - FIRST AID MEASURES**

#### 4.1 - First Aid Procedures - General

Get medical assistance for all cases of overexposure.

# 4.2 - Eye Contact

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

#### 4.3 - Skin Contact

Skin contact: Wash thoroughly with soap and water. Get medical attention if irritation develops or persists. (P352)

#### 4.4 - Inhalation

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. (P340)

## 4.5 - Ingestion

Ingestion: Call a physician or poison control center immediately. ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

## **SECTION 5 - FIRE FIGHTING MEASURES**

## 5.1 - Flammable Properties

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### 5.2 - Extinguishing Media

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

## 5.3 - Protection of Firefighters

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

# 6.1 - Spill Response

Wear a self-contained breathing apparatus and appropriate Personal protection. Stop leak if you can do so without risk. Ventilate area. Neutralize spill with soda ash or lime. Take up and containerize for proper disposal. Flush spill area with water. Keep combustibles away from spilled material. Comply with Federal, State, and local regulations.

#### **SECTION 7 - HANDLING AND STORAGE**

Store in a tightly closed container. (P404)

Store in a cool dry place. (P235)

Avoid inhalation.

Use with adequate ventilation.

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

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals. (P202)

# **SECTION 8 - EXPOSURE CONTROLS**

## 8.1 - Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

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### **SECTION 8 - EXPOSURE CONTROLS** - continued

### 8.2 - General Hygene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Compatible chemical-resistant protective gloves must be worn to prevent skin contact. Inspect gloves prior to use. Use proper glove removal technique to avoid contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly and dry.

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Odor: Green pepperish
Odor Threshold: N/A

pH: N/A

Melting Point: N/A
Boiling Point: 76 °C

Flash Point: 145 °F (63 °C) (cc)

Evaporation Rate (Butyl Acetate=1): N/A

Flammability Class: N/A

Lower Flammability Level: N/A Upper Flammability Level: N/A

Vapor Pressure: 0.704 mmHg @ 25 °C

Vapor Density (Air = 1): >1 Specific Gravity: 0.84 g/cm3 Solubility in Water: 179 mg/L

Partition Coefficient: log Pow: 3.30 Autoignition Temperature: N/A Decomposition Temperature: N/A

Viscosity: N/A
VOC Content: N/A
Percent Volatile: N/A

#### SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Acids

Oxidizers

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# **SECTION 10 - STABILITY AND REACTIVITY** - continued

Hazardous Decomposition: Oxides of carbon Hazardous Polymerization: Will not occur Condition to Avoid: Excessive heat

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

## **Human Health Toxicity**

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): Rat - 860 mg/kg

LD50 (Dermal): Rabbit - >2000 mg/kg

LC50 (Inhalation): N/A

No other information related to the toxicological properties of this product is available at this time.

### **SECTION 12 - ECOLOGICAL INFORMATION**

#### **Environmental Toxicity**

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): N/A

EC50 (Aquatic Invertebrate): N/A

BCF: N/A

No other information related to the ecological properties of this product is available at this time.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

# **SECTION 14 - TRANSPORT INFORMATION**

Transportation Information (DOT/IATA)

UN Number: NR

Class: NR

Packing Group: NR

Proper Shipping Name: Not Regulated for Transport

Poison by Inhalation: No Marine Pollutant: No

## **SECTION 15 - REGULATORY INFORMATION**

The CAS number of this product is listed on the TSCA Inventory.

This product is NOT subject to SARA section 313 reporting requirements.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

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## **SECTION 16 - OTHER INFORMATION**

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend: N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

### **HMIS/NFPA HAZARD INDEX**

- 0 Minimal
- 1 Slight
- 2 Moderate
- 3 Serious
- 4 Severe
- \* Additional Hazard

#### **GHS HAZARD INDEX**

Category 1 - Most Severe

Category 5 - Least Severe

\*\*\*\* End of Document \*\*\*\*

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