

## SAFETY DATA SHEET

#### 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0525

**PRODUCT NAME** Cis 3 Hexenal

**SUPPLIER** Shanghai M & U International Trade Co., Ltd.

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FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

### 2. HAZARD IDENTIFICATION:

# **Emergency Overview**

# **OSHA Hazards**

Combustible Liquid, Irritant

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3)

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 2)

# **GHS** Label elements, including precautionary statements



Pictogram:

Signal word Warning

# **Hazard statement(s)**

H226 Flammable liquid and vapour.H319 Causes serious eye irritation.

H401 Toxic to aquatic life.

## **Precautionary statement(s)**

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243	Take precautionary measures against static discharge.	
P264	Wash skin thoroughly after handling.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
P303 P361 P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower	
P305 P351 P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337 P313	If eye irritation persists: Get medical advice/ attention.	
P370 P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.	
P403 P235	Store in a well-ventilated place. Keep cool.	
P501	Dispose of contents/ container to an approved waste disposal plant.	

## **HMIS Classification**

Health hazard 1 Flammability 2 Physical hazards 3

# **NFPA Rating**

Health hazard 1 Fire 2 Reactivity Hazard 0

# **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.Skin May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

# 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM		(Z)-HEX-3-ENAL	
Formula	C6 H10 O		T N
Molecular Weight	98.14 g/mol	The Assessment of the Assessme	
CAS-No	EC-No	Index-No.	Concentration
6789-80-6	229-854-4	7.75	

## 4. FIRST-AID GUIDE:

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING GUIDE:

## **Conditions of flammability**

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# **Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

#### **Further information**

Use water spray to cool unopened containers.

# 6. ACCIDENTAL RELEASE GUIDE:

### **Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13).

#### 7. HANDLING AND STORAGE:

### **Precautions for safe 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 buildup of electrostatic charge.

# **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values.

## Personal protective equipment

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# **Hand protection**

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.

## **Eye protection**

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).

### Skin and body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	
Form:	LIQUID

Color:	COLORLESS TO PALE YELLOW
Safety data	
pH	no data available
Melting point (°C)	no data available
Boiling point (°C)	20
Flash point (°F) Closed cup	70
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure (mm Hg @20 °C)	8.0
Density @25 °C	0.850
Water solubility	no data available
Partition coefficient:	
n-octanol/water	no data available
Relative vapour density	>1
Odor	POWERFUL, GREEN, GRASSY, APPLE-LIKE
Odour Threshold	no data available
Evaporation rate	no data available

# 10. STABILITY AND REACTIVITY:

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

No data available

## **Conditions to avoid**

No data available

## Materials to avoid

Strong oxidizing agents

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - no data available

# 11. TOXICOLOGICAL INFORMATION:

Acute toxicity	
Oral LD50	no data available
Inhalation LC50	no data available
Dermal LD50	no data available
Other information on acute toxicity	no data available

Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available

Carcinogenicity

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.

ACGIH: No component of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

# Reproductive toxicity

No data available

### **Teratogenicity**

No data available

## Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

## **Aspiration hazard**

No data available

#### Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

## Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Synergistic effects**

No data available

#### **Additional Information**

RTECS: Not available

### 12. ECOLOGICAL INFORMATION:

# **Toxicity**

No data available

# Persistence and degradability

No data available

### **Bioaccumulative potential**

No data available

# Mobility in soil

No data available

#### PBT and vPvB assessment

No data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

## 13. DISPOSAL RECOMMENDATIONS:

#### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### **Contaminated packaging**

Dispose of as unused product.

### 14. TRANSPORTATION INFORMATION:

#### DOT (US)

UN number: 1993 Class: 3 Packing group: II

Proper shipping name: FLAMMABLE LIQUID, N.O.S.

#### **IMDG**

UN number: 1993 Class: 3 Packing group: II

Proper shipping name: FLAMMABLE LIQUID, N.O.S.

### **IATA**

UN number: 1993 Class: 3 Packing group: II

Proper shipping name: FLAMMABLE LIQUID, N.O.S.

#### **15. REGULATORY INFORMATION:**

#### **OSHA Hazards**

Combustible Liquid, Harmful by ingestion. Irritant

# **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

# **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

# Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act.

### **New Jersey Right To Know Components**

No components are subject to the New Jersey Right to Know Act.

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### 16. OTHER INFORMATION:

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

Prepared By: M&U International LLC REVISED: 07/17/2017