

## SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE

A0442

**PRODUCT NAME** THEASPIRANE

SUPPLIER

Shanghai M & U International Trade Co., Ltd. Rm 1717, No 598 North NuJiang Road 200333 Shanghai, China +86-21-32515501 32515502 sales@mu-intel.com

#### FOR EMERGENCIES CALL CHEMTREC:

800-424-9300 (24-HOURS)

## 2. HAZARD IDENTIFICATION:

**Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)** Flammable liquids (Category 4), H227 For the full text of the H-Statements mentioned in this Section, see Section 16.

# GHS Label elements, including precautionary statements Pictogram

None

Signal word Warning

#### Hazard statement(s) H227

Combustible liquid.

## **Precautionary statement(s)**

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P280	Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
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.

Hazards not otherwise classified (HNOC) or not covered by GHS None

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Substances	
Synonyms:	(±)-Theaspirane
	2,6,10,10-Tetramethyl-1-oxaspiro[4.5]dec-6-ene
Formula:	C13 H22 O
Molecular weight :	194.31 g/mol
CAS-No. :	36431-72-8
EC-No. :	253-031-9

#### Hazardous components

	Classification	Concentration
2,6,10,10-Tetramethyl-1-oxaspiro[4.5]dec-6-ene		
	Flam. Liq. 4; H22	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST-AID GUIDE:

#### **Description of first aid measures**

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### 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

Flush eyes with water as a precaution.

#### If swallowed

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

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed** No data available

## 5. FIRE-FIGHTING GUIDE:

## Extinguishing media Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

## Special hazards arising from the substance or mixture

Carbon oxides

## **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE GUIDE:

#### Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 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). Keep in suitable, closed containers for disposal.

#### **Reference to other sections**

For disposal see section 13.

## 7. HANDLING AND STORAGE:

#### **Precautions for safe handling**

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

## Conditions for safe storage, including any incompatibilities

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.

## Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## 8. EXPOSURE AND PERSONAL PROTECTION:

#### **Control parameters**

#### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

#### **Exposure controls**

### **Appropriate engineering controls**

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

#### Personal protective equipment Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin 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.

#### **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.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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).

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

#### Information on basic physical and chemical properties

Appearance	
Form:	liquid
Odour	No data available
Odour Threshold	No data available
рН	No data available

Melting point/freezing point	No data available
Initial boiling point and boiling range	68 - 72 °C (154 - 162 °F) at 4 hPa (3 mmHg) - lit.
Flash point	65 °C (149 °F) - closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive	No data available
limits	
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.931 g/cm3 at 25 °C (77 °F)
Water solubility	No data available
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	No data available

## **10. STABILITY AND REACTIVITY:**

## Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

## Possibility of hazardous reactions

No data available

## Conditions to avoid

Heat, flames and sparks.

## Incompatible materials

Strong oxidizing agents

## Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

## **11. TOXICOLOGICAL INFORMATION:**

## **Information on toxicological effects Acute toxicity** No data available

## Inhalation:

No data available

#### **Dermal:**

No data available 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 No data available

## Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard No data available

**Additional Information** RTECS: Not available

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

## **12. ECOLOGICAL INFORMATION:**

**Toxicity** No data available

**Persistence and degradability** No data available

**Bioaccumulative potential** No data available

Mobility in soil No data available

#### **Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects** No data available

## **13. DISPOSAL RECOMMENDATIONS:**

#### Waste treatment methods Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated packaging**

Dispose of as unused product.

## **14. TRANSPORTATION INFORMATION:**

DOT (US)	
NA-Number:	1993
Proper shipping name:	Combustible liquid, n.o.s. (2,6,10,10-Tetramethyl-1-
	oxaspiro[4.5]dec-6-ene)
Class:	NONE

Packing group:	III
Poison Inhalation Hazard:	No
IMDG	Not dangerous goods
ΙΑΤΑ	Not dangerous goods

## **15. REGULATORY INFORMATION:**

#### SARA 302 Components

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

#### **SARA 313 Components**

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

### Massachusetts Right to Know Components

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

#### Pennsylvania Right to Know Components

2,6,10,10-Tetramethyl-1-oxaspiro[4.5]dec-6-ene CAS-No.: 36431-72-8 Revision Date: N/A

#### New Jersey Right to Know Components

2,6,10,10-Tetramethyl-1-oxaspiro[4.5]dec-6-ene CAS-No.: 36431-72-8 Revision Date: N/A

#### **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:**

#### **HMIS Rating**

Health hazard: 0 Chronic Health Hazard: Flammability: 2 Physical Hazard 0

#### **NFPA Rating**

Health hazard: 0 Fire Hazard: 2 Reactivity Hazard: 0

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Prepared By: M&U International LLC

**REVISED:** 02/17/2015