

# **SAFETY DATA SHEET**

#### 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0295

**PRODUCT NAME** 2,5-DIMETHYL FURAN

**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**

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

Flammable liquids (Category 2)
Acute toxicity, Oral (Category 4)
Acute aquatic toxicity (Category 3)
Chronic aquatic toxicity (Category 3)

# GHS Label elements, including precautionary statements Pictogram:





# Signal word

Danger

# **Hazard statement(s)**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H402 Harmful to aquatic life with long lasting effects.

# **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.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P301 P312 P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell. Rinse mouth.

P303 P361 P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated

clothing. Rinse skin with water/ shower.

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 2 Flammability 3 Physical hazards 1

# **NFPA Rating**

Health hazard 2

Fire 3

Reactivity Hazard 0

# **Potential Health Effects**

#### Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

# Skin

Harmful if absorbed through skin. May cause skin irritation

#### **Eves**

May cause eye irritation.

#### **Ingestion**

Harmful if swallowed

#### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

 SYNONYM:
 N/A

 Formula:
 C6 H8 O

 Molecular Weight:
 96.13 g/mol

 CAS-No.:
 625-86-5

 EC-No.:
 210-914-3

Index-No.: -

#### **Concentration:** -

#### 4. FIRST-AID GUIDE:

#### 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.

#### 5. FIRE-FIGHTING GUIDE:

# 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 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. Evacuate personnel to safe areas. 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 wet-brushing 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. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

# **Conditions for safe storage**

Store in cool place. 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. Store under inert gas.

#### 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 with multi-purpose 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).

# **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.

#### Eve 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

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, and 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
Colour	PALE YELLOW TO GREEN
Safety data	
рН	no data available
Melting point (°C)	-62
<b>Boiling point</b> (°C)	90
Flash point (°F) Closed cup	29
Ignition temperature	no data available
Auto ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure (mm Hg@20 °C)	no data available
Density @25 °C	0.903
Water solubility	INSOLUBLE
Partition coefficient n-octanol/water	LOG POW: 2.24
Relative vapour density	3.31
Odor	CHARACTERISTIC
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

Vapours may form explosive mixture with air.

# **Conditions to avoid**

Heat, flames and sparks. Extremes of temperature and direct sunlight.

#### Materials to avoid

Oxidizing agents, Strong acids, Strong bases

# **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

LD50 Oral - rat - 1,238 mg/kg

# **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

Genotoxicity in vitro - Hamster - ovary Cytogenetic analysis

#### 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. May cause respiratory tract irritation.

# **Ingestion**

Harmful if swallowed.

#### Skin

Harmful if absorbed through skin May cause skin irritation.

#### **Eyes**

May cause 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: LU0875000

#### **12. ECOLOGICAL INFORMATION:**

#### **Toxicity**

Toxicity to fish LC50- Pimephales promelas (fathead minnow) - 71.1 mg/l - 96 h

# Persistence and degradability

No data available

# Bio accumulative 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. Harmful to aquatic life.

No data available

# 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 liquids, n.o.s.
IMDG	
UN number:	1993
Class:	3
Packing group:	II
Proper shipping name:	Flammable liquids, n.o.s.
IATA	
UN number:	1993
Class:	3
Packing group:	II
Proper shipping name:	Flammable liquids, n.o.s.

#### 15. REGULATORY INFORMATION:

#### **OSHA Hazards**

Flammable liquid, Harmful by ingestion.

# **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 Ill, Section 313.

# SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

# **Massachusetts Right to Know Components**

2,5-Dimethylfuran

CAS-No.: 625-86-5 Revision Date: 1993-04-24

# Pennsylvania Right to Know Components

2,5-Dimethylfuran

CAS-No.: 625-86-5 Revision Date: 1993-04-24

# **New Jersey Right to Know Components**

2,5-Dimethylfuran

CAS-No.: 625-86-5 Revision Date: 1993-04-24

# 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 MSDS 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 MSDS. 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 MSDS. The user should review these regulations to ensure full compliance.

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