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## Material Safety Data Sheet

### 2,5-Dimethylfuran MSDS

#### Section 1: Chemical Product and Company Identification

**Product Name:** 2,5-Dimethylfuran

**Catalog Codes:**

**CAS#:** 625-86-5

**RTECS:** LU0875000

**TSCA:** Not applicable.

**CI#:** Not applicable.

**Synonym:** 2,5-dimethyl-fura

**Chemical Name:** 2,5-DIMETHYLFURAN

**Chemical Formula:** C<sub>6</sub>H<sub>8</sub>O

**Contact Information for Emergency:** (0086) 551 65418678

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#### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS # %	By Weight
2,5-Dimethylfuran	625-86-5	100

**Toxicological Data on Ingredients:** Not applicable.

#### Section 3: Hazards Identification

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Flammable liquids (Category 2)

Acute toxicity, Oral (Category 4)

According to European Directive 67/548/EEC as amended.

Highly flammable. Harmful if swallowed.

Label elements

Signal word            Danger

Hazard statement(s)

H225            Highly flammable liquid and vapour.

H302            Harmful if swallowed.

Precautionary statement(s)

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

Hazard symbol(s)

F            Highly flammable

Xn            Harmful

R-phrases(s)

R11            Highly flammable.

R22            Harmful if swallowed.

S-phrases(s)

S16            Keep away from sources of ignition - No smoking.

Other hazards - none

## Section 4: First Aid Measures

### 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

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.

## Section 5: Fire and Explosion Data

### 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 fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

**Further information**

Use water spray to cool unopened containers

## **Section 6: Accidental Release Measures**

### **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).

## **Section 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 build up 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. Store in cool place.

Store under inert gas.

## **Section 8: Exposure Controls/Personal Protection**

### **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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**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**

Complete suit protecting against chemicals, Flame retardant antistatic protective 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.

**Section 9: Physical and Chemical Properties****Appearance**

Form clear, liquid

Colour dark yellow

**Safety data**

pH no data available

Melting point -62 °C - lit.

Boiling point 92 - 94 °C - lit.

Flash point 7 °C - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 0,903 g/cm<sup>3</sup> at 25 °C

Water solubility no data available

Partition coefficient:  
n-octanol/water log Pow: 2,24

Relative vapour  
density 3,32  
- (Air = 1.0)

**Section 10: Stability and Reactivity Data****Chemical stability**

Stable under recommended storage conditions.

**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

**Section 11: Toxicological Information****Acute toxicity**

LD50 Oral - rat - 1.238 mg/kg

**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.

**Reproductive toxicity**

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

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	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.

**Additional Information**

RTECS: LU0875000

## Section 12: Ecological Information

### Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 71,1 mg/l - 96 h

### 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

Harmful to aquatic life.

no data available

## Section 13: Disposal Considerations

### 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.

## Section 14: Transport Information

### ADR/RID

UN-Number: 1993 Class: 3

Packing group: II

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (2,5-Dimethylfuran)

### IMDG

UN-Number: 1993 Class: 3

Packing group: II

EMS-No: F-E, S-E

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (2,5-Dimethylfuran)

Marine pollutant: No

### IATA

UN-Number: 1993 Class: 3

Packing group: II

Proper shipping name: Flammable liquid, n.o.s. (2,5-Dimethylfuran)

## Section 15: Other Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.*