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Material Safety Data Sheet

2-Methylfuran MSDS

Section 1: Chemical Product and Company Identification

Product Name: 2-Methylfuran

Catalog Codes:

CAS#: 534-22-5

RTECS: LU2625000

TSCA: Not applicable.

CI#: Not applicable.

Synonym: 2-METHYLFURAN

Chemical Name: 2-methyl-fura

Chemical Formula: C₅H₆O

Contact Information for Emergency: (0086) 551 65418678

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS # %	By Weight
2-Methylfuran	534-22-5	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Emergency Overview: This material is HAZARDOUS by OSHA Communication definition.

Signal Word: Danger.

NFPA Rating: Health: 2; Flammability: 3; Reactivity: 1

NHIS Rating: Health: 2; Flammability: 3; Reactivity: 1

Hazards: Highly flammable. Avoid oxidizing agents. Avoid prolonged or repeated breathing of gases, vapors or mists.

Primary Route of entry: Inhalation

Eye: May be irritating to eye.

Skin: May be irritating to skin.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract and mucous membrane irritation. May cause

Chronic: unconsciousness or respiratory arrest.

No information available.

Target Organs: No information available.

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Wash clothing before reuse. Get medical aid if ill effects or irritation develops.

Ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth and drink water. Get medical aid

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If Breathing is difficult, give oxygen. Get medical aid if breathing difficulty persists.

Section 5: Fire and Explosion Data

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

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Cool containers with flooding quantities of water.

Extinguishing Media: Small fire use water spray, dry chemical, carbon dioxide. Large fire use water spray, water fog dry chemical, carbon dioxide, or alcohol resistant foam. DO NOT USE SOLID WATER STREAM.

Flash Point: -22°F, -30°C

Auto ignition Temperature: 842°F, 450°C

Explosion limits, Lower: 1.9

Upper: 14.0

NFPA Rating: Health: 2; Flammability: 3; Reactivity: 1

NHIS Rating: Health: 2; Flammability: 3; Reactivity: 1

Section 6: Accidental Release Measures

General Information: Eliminate all sources of ignition. Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert non-combustible material (e.g. vermiculite, sand or earth), then place in a suitable container. Clean up spills immediately using non-sparking tools. Provide ventilation.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Handle empty containers with care. Vapor/residues may be flammable.

Storage: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8: Exposure Controls/Personal Protection

Personal Protective Equipment:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles and face shield as described by OSHA's eye and face protection regulations in

Hands: 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves to prevent skin exposure. Butyl rubber,

Clothing: Viton, or 4H and Silver Shield brand.

Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and

ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear, colorless to yellow to amber.

Odor: Ether-like odor.

pH: Not available

Vapor Pressure: 155 mm Hg @ 25 °C (77 °F)

Vapor Density: 2.84 (calculated)

Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 63 °C
Freezing/Melting Point: -89 °C.
Autoignition Temperature: 842°F, 450°C
Solubility: water Insoluble.
Specific Gravity/Density: 0.91 g/cc.
Molecular Formula: C₅H₆O
Molecular Weight: 82.1

Section 10: Stability and Reactivity Data

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, excess heat, strong oxidants.
Incompatibilities with other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Not reported.

Section 11: Toxicological Information

LD50 No information available.
LC50: No information available.
Carcinogenicity: No information available.
Epidemiology: No information available.
Sensitization No information available.
Eye Liquid and vapor is irritating to eyes.
Skin No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Genetic toxicity: No information available.
Neurotoxicity: No information available.
Other Studies: No information available.

Section 12: Ecological Information

Acute toxicity fish No information available.
Invertebrates No information available.
Aquatic plants No information available.
Microorganisms No information available.
Other Studies: No information available.

Section 13: Disposal Considerations

Contaminated products, oil or water may be a US RCRA or OSHA hazardous waste due to a potentially low flash point.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14: Transport Information

US DOT

Shipping Name: 2-methylfuran

Hazard Class: Flammable liquid

UN Number: UN2301

Packing Group: II

Section 15: Other Regulatory Information

TSCA (Toxic Substance Control Act): 2-methylfuran is listed on the TSCA inventory.

TSCA Section 12b: Not listed.

CERLA Hazardous Substances and Corresponding RQs:

SARA Section 302 (Superfund Amendments and Reauthorizations Act):

SARA 311/312 Based on available information, 2-methylfuran is classified as follows: Fire Hazard

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.