

MATERIAL SAFETY DATA SHEET

FURAN **(Subject to availability)** **MSDS CAS :- 110-00-9**

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: FURAN

CAS#: 110-00-9

C.I. No.:

Synonym:

Chemical Name: Not available.

Chemical Formula: C₄H₄O

Molecular Weight: 68.07

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Furan	110-00-9	100%

Section 3: Hazards Identification

Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Flammable liquids(Category 1), H224

Acute toxicity, Oral(Category 4), H302

Acute toxicity, Inhalation(Category 4), H332

Skin irritation(Category 2), H315

Germ cell mutagenicity(Category 2), H341

Carcinogenicity(Category 1B), H350

Specific target organ toxicity -repeated exposure(Category 2), H373

Chronic aquatic toxicity(Category 3), H412

Label elements:

Hazard statements:

H224: Extremely flammable liquid and vapour.

H302 + H332: Harmful if swallowed or if inhaled

H315: Causes skin irritation.

H341: Suspected of causing genetic defects.

H350: May cause cancer.

H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273: Avoid release to the environment.

Section 4: First Aid Measures

Description of 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.

Section 4: First Aid Measures (Continued)

In case of skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. 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 labelling (see section 2.2) and/or in section 11

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

Section 5: Fire and Explosion Data

Extinguishing media:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid breathing vapours, 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.

Section 6: Accidental Release Measures (Continued)

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 regulation.

Section 7: Handling and Storage

Precautions for safe handling: Avoid exposure -obtain special instructions before use.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, including any incompatibilities: 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.Light sensitive.Store under inert gas.Air sensitive.Refrigerate before opening. Over time, pressure may increase causing containers to burstHandle and open container with care.Storage class (TRGS 510): Flammable liquids.

Section 8: Exposure Controls/Personal Protection

Exposure controls:

Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment:

Eye/face 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 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.

Section 8: Exposure Controls/Personal Protection (Continued)

Body Protection: Complete suit protecting against chemicals, 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 (EN 143) respirator cartridges as a backup to engineering controls. If the 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. Discharge into the environment must be avoided.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

Physical state and appearance	: Liquid.
Odour	: Not available.
Odour Threshold	: Not available.
pH	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: 32 °C At 1011 hPa-lit
Flash point	: -35.99 °C-closed cup
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: 476 mmHg At 20 °C
Vapour density	: Not available.
Relative density	: 0.936 g/mL At 25 °C
Water solubility	: Not available.
Partition coefficient: octanol/water	: Pow: 0.785
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10: Stability and Reactivity Data

Reactivity: No data available

Chemical stability: May form peroxides on prolonged storage. Date container and periodically test for peroxides. Stable under recommended storage conditions. Contains the following stabiliser(s): (0.025%)

Possibility of hazardous reactions: No data available.

Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials: No data available.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions.
-Carbon oxides.

Other decomposition products- No data available.

Section 11: Toxicological Information

Information on toxicological effects:

Acute toxicity: LD50 Oral-Rat-200 -2,000 mg/kg(Furan)

LC50 Inhalation-Rat-1 h-3398 ppm(Furan)

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Ptosis. Lungs, Thorax, or

Respiration: Dyspnea.

LD50 Intraperitoneal-Rat-5.2 mg/kg(Furan)

LD50 Intraperitoneal-Mouse-7 mg/kg(Furan)

Skin corrosion/irritation: Not available.

Serious eye damage/eye irritation: Not available.

Respiratory or skin sensitisation: Not available.

Germ cell mutagenicity: In vitro tests showed mutagenic effects (Furan)

Section 11: Toxicological Information (Continued)

Carcinogenicity: Possible human carcinogen(Furan)

IARC:2B-Group 2B: Possibly carcinogenic to humans(Furan)

Reproductive toxicity: No data available(Furan)

Section 12: Ecological Information

Toxicity:

Toxicity to fish: LC50-Pimephales promelas (fathead minnow)-61 mg/l-96.0 h(Furan)(OECD Test Guideline 203).

Persistence and degradability:

Biodegradability: Result: -Not readily biodegradable

Bioaccumulative potential: No data available

Mobility in soil: No data available(Furan)

Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects: Toxic to aquatic life with long lasting effects.

Section 13: Disposal Considerations

Waste treatment methods:

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name	: Furan
UN N°	: 2389
ADR – Class	: 3
ADR – Group	: I

Sea transport (IMDG) [English only]

Proper shipping name	: Furan
UN N°	: 2389
IMO-IMDG - Class or division	: 3
IMO-IMDG - Packing group	: I

Air transport (ICAO-IATA) [English only]

Proper shipping name	: Furan
UN N°	: 2389
IATA - Class or division	: 3
IATA - Packing group	: I

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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