

# 1. Identification of the substances/ mixture and of the company/ undertaking

## **1.1 Product Identifiers**

Product CodeRM5917Product NameFurfural, A.R.

**1.2** Relevant identified uses of the substance or mixture and uses advised against Identified uses Laboratory chemicals, Manufacture of substances

#### **1.3** Details of the supplier of the safety data sheet

Produced by	HiMedia Laboratories Pvt. Ltd.
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# 1.4 Emergency Tel. No.

Emergency Tel.No. Please contact the regional HiMedia representation in your country

# 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Acute toxicity,oral (Category 3) Acute toxicity,dermal (Category 4) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2A) Acute toxicity,inhalation (Category 3) Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3) Carcinogenicity (Category 2)

# Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful in contact with skin. Toxic by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect.

#### 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

- Hazard Statement(s)
- H301 Toxic if swalloed
- H312 Harmful in contact with skin
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H331 Toxic if inhaled
- H335 May cause respiratory irritation
- H351 Suspected of causing cancer

Precautionary Statement(s)

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P311 Call a POISON CENTER or doctor/physician.

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



R-Phrase(s)

Symbol(s)

R21 Harmful in contact with skin.
R23/25 Toxic by inhalation and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R40 Limited evidence of a carcinogenic effect.

S-Phrase(s)

<b>D</b> -11	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36	7 Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where
possible).	

2.3 Other hazards - Photosensitizer

# **3.** Composition/Information on Ingredients

# 3.1 Substances

Synonym : 2-Furaldehyde

Molecular Formula	C <sub>5</sub> H <sub>4</sub> O <sub>2</sub>
Molecular Weight.	96.08

Component		Concentration	
Furfural, A.R.			
CAS-No.	98-01-1		
EC-No.	202-627-7		

# 4. First Aid Measures

# 4.1 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. **In case of skin contact** 

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. consult a physician.

# **4.2 Most important symptoms and effects, both acute and delayed** No data available

**4.3 Indication of immediate medical attention and special treatment needed**<u>No data available</u>

# 5. Fire Fighting Measures

5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2** Special hazards arising from the substance or mixture Carbon oxides

# 5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information** No data available

# 6 Accidental Release Measures

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 6.2 Environmental precautions

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

# 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections** For disposal see Section 13.

# 7 Handling and Storage

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

## 7.3 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.

Recommended Storage Temperature : Store at 2 - 8°C

**7.3** Specific end uses No data available

#### No data available

# 8 Exposure Controls/Personal Protection

#### 8.1 Control parameters

Components with workplace control parameters

#### 8.2 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

## **Hygiene measure**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands face after working with the substance

#### **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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.

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

#### **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 work place.

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK(EN 14387) respirator cartridges as a backup to the 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).

#### **Environment exposure controls**

Do not empty into drains

# 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - Appearance

Colourless to red to amber liquid

No data available No data available

# 9.2 Other safety information

No data available

# 10 Stability and Reactivity

**10.1 Reactivity** No data available

- 10.2 Chemical stability
- No data available
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** Other decomposition products - No data available
- 11 Toxicological Information
- 11.1 Information on toxicoligical effects

  Acute toxicity
  No data available
  Skin corrosion/irritation
  No data available
  Serious eye damage/eye irritation
  No data available
  Respiratory or skin sensitisation
  No data available

Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than orequal 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 Aspiration hazard No data available

# **Potential Health Effects**

Inhalation. Refer Section 2 Skin Refer Section 2 Eyes Refer Section 2 Ingestion Refer Section 2

#### **Additional Information**

RTECS : LT7000000

#### 12 Ecological Information

- 12.1 Toxicity
- No data available
- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- **12.5 PBT and vPvB assessment** No data available
- **12.6 Other adverse effects** No data available

#### 13 Disposal Considerations

# **13.1** Waste treatments methods

# Product

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose of this material.

# **13.2** Contaminated packaging Dispose of as unused product.

#### **14** Transport Information

14.1 UN-No.

ADR/RID: 1199 IMDG: 1199 IATA: 1199

#### 14.2 UN proper shipping name

ADR/RID	: Furfural, A.R.
IMDG	: Furfural, A.R.
IATA	: Furfural, A.R.

# **14.3 Transport hazard class(es)** ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

#### **14.4 Packaging group** ADR/RID: 2 IMDG: 2 IATA: 2

#### 14.5 Environmental hazards

ADR/RID: No IMDG: Marine Pollutant:No IATA: No

14.6 Special precautions for use

No data available

#### **15 Regulatory Information**

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

**15.1 Safety health and environment regulations/legislation specific for the substance or mixture** No data available

#### **15.2** Chemical Safety Assessment

No data available

#### 16 Other Information Further information

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