CAS-No.: 98-00-0 MSDS



# MATERIAL SAFETY DATA SHEET (MSDS)

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical structure

Product form : Substance

:

 EC Index-No.
 : 603-018-00-2

 EC-No.
 : 202-626-1

 CAS-No.
 : 98-00-0

 Product code
 : B-01266

 Formula
 : C5H6O2

ОМОН

Synonyms : 2-(Hydroxymethyl) furan

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

**Bio-Chem Chemicals** 

5455, Nicholson Road Science Market, Ambala Cantt. 133001 Haryana (India)

+91-82952 41953

info@biofinechemical.com - www.biofinechemical.com

## 1.4. Emergency telephone number

Emergency number : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhal.), H331

Category 3

Acute toxicity (dermal), H312

Category 4

Acute toxicity (oral), H302

Category 4

Carcinogenicity, Category H351

2

Serious eye damage/eye H319

# Safety Data Sheet

irritation, Category 2

Specific target organ H335

toxicity — Single exposure, Category 3, Respiratory tract irritation

Specific target organ H373

toxicity — Repeated exposure, Category 2

Full text of H statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.3; R40

T; R23 Xn; R21/22 Xn; R48/20 Xi; R36/37

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :





GHS06

GHS08

Signal word (CLP) : -

Hazard statements (CLP) : H302+H312 - Harmful if swallowed or in contact with skin

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.

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

Precautionary statements (CLP) : P261 - Avoid breathing dust, fume, gas, vapours, spray, mist.

P280 - Wear protective gloves, protective clothing, eye protection, face protection. 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/doctor

#### 2.3. Other hazards

No additional information available

## Safety Data Sheet

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name : FURFURYL ALCOHOL FOR SYNTHESIS

CAS-No. : 98-00-0 EC-No. : 202-626-1 EC Index-No. : 603-018-00-2

Full text of R- and H-statements: see section 16

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Suspected of causing cancer.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Immediately call a POISON CENTER/doctor. Specific measures (see supplemental

first aid instruction on this label). Wash with plenty of water/.... Wash contaminated

clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes damage to organs.

Symptoms/effects after inhalation : May cause respiratory irritation. Toxic if inhaled.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing

significant health hazard. Harmful in contact with skin.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry powder. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

## Safety Data Sheet

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills

with inert solids, such as clay or diatomaceous earth as soon as possible.

#### 6.4. Reference to other sections

No additional information available

**SECTION 7: Handling and storage** 

## 7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions

have been read and understood. Avoid contact with skin and eyes. Use only

outdoors or in a well-ventilated area. Do not breathe vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed

areas with mild soap and water before eating, drinking or smoking and when leaving

work.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

**SECTION 8: Exposure controls/personal protection** 

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

**SECTION 9: Physical and chemical properties** 

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 98.1 g/mol

## Safety Data Sheet

Colour : Clear Colorless.

Odour : burning.

Odour threshold : 8 ppm

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -29 °C

Freezing point : No data available

Boiling point : 170 °C

Flash point : 65 °C

Auto-ignition temperature : 490 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 0.1 kPa (at 20°C)

Relative vapour density at 20 °C : 3.38

Relative density : No data available

Density : 1.1296 g/cm³
Solubility : Water: Soluble

Log Pow : 0.3

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 1.8 - 16.3 vol %

#### 9.2. Other information

No additional information available

**SECTION 10: Stability and reactivity** 

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

No additional information available

## Safety Data Sheet

#### 10.6. Hazardous decomposition products

No additional information available

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Inhalation: Toxic if inhaled. Dermal: Harmful in contact with skin. Oral: Harmful if

swallowed.

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

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

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Harmful if swallowed. Harmful in contact with skin.

#### **SECTION 12: Ecological information**

## 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

FURFURYL ALCOHOL FOR SYNTHESIS (98-00-0)	
Log Pow	0.3

## 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

## Safety Data Sheet

#### 12.6. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 2874 UN-No. (IMDG) : 2874 UN-No. (IATA) : 2874 UN-No. (ADN) : 2874 UN-No. (RID) : 2874

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FURFURYL ALCOHOL
Proper Shipping Name (IMDG) : FURFURYL ALCOHOL

Proper Shipping Name (IATA) : Furfuryl alcohol

Proper Shipping Name (ADN) : FURFURYL ALCOHOL
Proper Shipping Name (RID) : FURFURYL ALCOHOL

Transport document description (ADR) : UN 2874 FURFURYL ALCOHOL, 6.1, III, (E) Transport document description (IMDG) : UN 2874 FURFURYL ALCOHOL, 6.1, III

Transport document description (IATA) : UN 2874 Furfuryl alcohol, 6.1, III

Transport document description (ADN) : UN 2874 FURFURYL ALCOHOL, 6.1, III
Transport document description (RID) : UN 2874 FURFURYL ALCOHOL, 6.1, III

# 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1
Danger labels (ADR) : 6.1



#### **IMDG**

Transport hazard class(es) (IMDG) : 6.1
Danger labels (IMDG) : 6.1



#### IATA

Transport hazard class(es) (IATA) : 6.1

## Safety Data Sheet

Hazard labels (IATA) : 6.1

:



#### ADN

Transport hazard class(es) (ADN) : 6.1
Danger labels (ADN) : 6.1

:



#### RID

Transport hazard class(es) (RID) : 6.1
Danger labels (RID) : 6.1

:



#### 14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

## 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

: TP1

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : T1
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container : T4

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : L4BH
Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT Transport category (ADR) : 2

## Safety Data Sheet

Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13, CV28

Special provisions for carriage - Operation : S9

(ADR)

Hazard identification number (Kemler No.) :

Orange plates

60

Tunnel restriction code (ADR) : E EAC code : •2X

- Transport by sea

Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-A
Stowage category (IMDG) : A

Segregation (IMDG) : SG17, SG35

Properties and observations (IMDG) : Clear, colourless, mobile liquid, becoming brown to dark-red upon exposure to light

and air. Miscible with water. Reacts explosively with oxidizing substances. Toxic if

swallowed, by skin contact or by inhalation.

MFAG-No : 153

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y642
PCA limited quantity max net quantity : 2L

(IATA)

PCA packing instructions (IATA) : 655
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 663
CAO max net quantity (IATA) : 220L
ERG code (IATA) : 6L

- Inland waterway transport

Classification code (ADN) : T1
Special provisions (ADN) : 802
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02 Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : T1
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container : T4

instructions (RID)

## Safety Data Sheet

Portable tank and bulk container special

provisions (RID)

: TP1

Tank codes for RID tanks (RID) : L4BH Special provisions for RID tanks (RID) : TU15 Transport category (RID) . 2 Special provisions for carriage - Packages : W12

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE8 Hazard identification number (RID) : 60

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

Not applicable

**SECTION 15: Regulatory information** 

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

FURFURYL ALCOHOL FOR SYNTHESIS is not on the REACH Candidate List FURFURYL ALCOHOL FOR SYNTHESIS is not on the REACH Annex XIV List

#### 15.1.2. National regulations

Germany

: Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; Reference to AwSV

ID No. 114)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve liist van voor de

voortplanting giftige stoffen -

Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: The substance is not listed

**Denmark** 

Class for fire hazard : Class III-1 Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management

guidelines for the storage of flammable liquids must be followed

## Safety Data Sheet

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

## 15.2. Chemical safety assessment

No additional information available

**SECTION 16: Other information** 

## Full text of R-, H- and EUH-statements:

Acute Tox. 3 (Inhalation) Acute Tox. 4 (Dermal) Acute Tox. 4 (Oral) Acute Tox. 4 (Oral) Acute Tox. 4 (Oral) Acute Tox. 4 (Oral) Acute toxicity (dermal), Category 4 Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4 Carc. 2 Carcinogenicity, Category 2 Eye Irrit. 2 Serious eye damage/eye irritation, Category 2 STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2 STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H302 Harmful if swallowed. H312 Harmful in contact with skin. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H336 H337 May cause damage to organs through prolonged or repeated exposure. R21/22 Harmful in contact with skin and if swallowed R23 Toxic by inhalation R36/37 Irritating to eyes and respiratory system R40 Limited evidence of a carcinogenic effect R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation T Toxic Xi Irritant Xn Harmful	i dii text of it-, it- and Lori-statements.	
Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4  Carc. 2 Carcinogenicity, Category 2  Eye Irrit. 2 Serious eye damage/eye irritation, Category 2  STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2  STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation  H302 Harmful if swallowed.  H312 Harmful in contact with skin.  Causes serious eye irritation.  H331 Toxic if inhaled.  H335 May cause respiratory irritation.  Suspected of causing cancer.  H373 May cause damage to organs through prolonged or repeated exposure.  R21/22 Harmful in contact with skin and if swallowed  R23 Toxic by inhalation  R36/37 Irritating to eyes and respiratory system  R40 Limited evidence of a carcinogenic effect  R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation  T Toxic  Xi Irritant	Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
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T Toxic Xi Irritant	R40	Limited evidence of a carcinogenic effect
Xi Irritant	R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
	Т	Toxic
Xn Harmful	Xi	Irritant
	Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product