SAFETY DATA SHEET



FURFURYL ALCOHOL

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

1.1 Product identifier:	
CAS Number:	98-00-0
EC number:	202-626-1
1.2 SYNONYMS:	Furan-2-yl methanol2-Furyl methanol
	Furfuryl alcohol

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity, oral (Category 4) Acute toxicity, inhalation (Category 2) Acute toxicity, Dermal (Category 4) Eye irritation, (Category 2) Carcinogenicity, (Category 2)
	Specific target organ toxicity -single exposure, Respiratory system (Category 3)
YOUR CHEM	Specific target organ toxicity - repeated exposure, Nose (Category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	H302 + H312: Harmful if swallowed or in contact with skin.



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	H319: Causes serious eye irritation.
	H330: Fatal if inhaled.
	H335: May cause respiratory
	irritation.
	H351: Suspected of causing cancer.
FOTI	H373: May cause damage to organs
-51	(Nose) through prolonged or
	repeated exposure if inhaled.
Precautionary Statements:	P202: Do not handle until all safety
	precautions have been read and
	understood.
	P280: Wear protective gloves/
	protective clothing/ eye protection/
	face protection.
	P301 + P312: IF SWALLOWED: Call a
	POISON CENTER/ doctor if you feel
	unwell.
	P302 + P352 + P312: IF ON SKIN:
	Wash with plenty of water.Call a
	POISON CENTER/ doctor if you feel
	unwell.
	P304 + P340 + P310: IF INHALED:
	Remove person to fresh air and
	·
	keep comfortable for breathing.
	Immediately call a POISON CENTER/
	doctor.
	P305 + P351 + P338: IF IN EYES:
	Rinse cautiously with water for
	several minutes. Remove contact
	lenses, if present and easy to do.
	Continue rinsing.
	P405: Store locked up.
VOUD PUEM	P501: Dispose of contents/ container
	to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation,
	dizziness, headaches, and may lead
	to central nervous system effects
	with prolonged exposure.
Ingestion:	can cause nausea, vomiting,
	abdominal pain, and may lead to



	more severe gastrointestinal distress or toxicity if consumed in large quantities.
Skin Contact:	can cause irritation, redness, and dryness, and prolonged exposure may lead to dermatitis or other skin reactions.
Eye contact:	can cause irritation, redness, tearing, and a burning sensation, potentially leading to more serious damage with prolonged exposure.
Chronic Exposure:	may lead to respiratory issues, liver or kidney damage, and nervous system effects, including headaches and dizziness, as well as potential skin sensitization or dermatitis.
Aggravation of pre-existing conditions:	Aggravation of pre-existing conditions from exposure to furfuryl alcohol may include worsening of
	respiratory disorders (such as asthma), skin conditions (such as eczema or dermatitis), and liver or kidney problems.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 98-00-0
	FURFURYL ALCOHOL
Identification number(s):	EC number: 202-626-1

SECTION 4: First aid measures

4.1 Description of first aid	
measures	
General information:	
After inhalation:	If breathed in, move person into
	fresh air. If not breathing, give
	artificial respiration. Consult a
	physician.



After skin contact: After eye contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician. Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion Risk of aspiration! Keep airways free. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects include acute respiratory irritation, headache, dizziness, nausea, and skin or eye irritation, with potential delayed effects such as liver or kidney damage and nervous system issues with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available



SECTION 6: Accidental release measures

6.1 Personal precautions,	Use personal protective
<u> </u>	
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
ECTD	Evacuate personnel to safe areas.
E9111	Beware of vapours accumulating
	to form explosive concentrations.
	Avoid dust accumulation. Seek
	medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
	drains.
6.3 Methods and material for	Take up spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
	return in its original container.
	Clean contaminated surfaces with
	an excess of water. Wash clothing
	and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a
YOUR CHEMI	fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.



	Protect containers against physical
	damage and check regularly for
	leaks. Store in a dry and dark area.
	Keep away from moisture.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
-511	Containers which are opened must
LOID	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good
	industrial hygiene and safety
	practice. Wash hands before
	breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks,
	wearing anti chemical gloves,
	rubber gloves, etc.
General protective and hygienic	Eyes, body and hand protection,
measures:	maintain indoor air unobstructed.
	Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be
	inspected prior to use. Use proper
	glove removal technique (without
VOUD OUEMI	touching glove's outer surface) to
YOUR CHEMI	avoid skin contact with this
I O O II O II L IVI I	product. Dispose of contaminated
	gloves after use in accordance with
	applicable laws. Wash and dry
	hands.
	Eye protection: Required



Protection of Body:	Complete suit protecting against
	chemicals, Flame retardant
	antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	. 13/0
and chemical properties	
General Information	
Appearance: Form:	Liquid
Colour:	Colourless to yeloow
Odour:	Sweet, nutty odor
pH-value:	No data available
Melting point/Melting range:	-27°C
Boiling point/Boiling range:	172°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	450°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	60°C
Danger of explosion:	None
Explosion limits: Lower:	2.3%
Explosion limits: Upper:	12.5%
Vapour pressure:	0.6mmHg at 25°C
Density at 20 °C:	1.11 g/cm ³
Relative density:	1.11
Vapour density:	4.2
Evaporation rate:	No data available
Solubility in / Miscibility with-	Soluble
·water at 20 °C:	
Partition coefficient:(n-	0.42
octanol/water)	
Viscosity:	3.5 cP at 25°C

SECTION 10: Stability and reactivity

10.1 Reactivity	Stable under room temperatures
10.2 Chemical stability	This chemical is stable under
	storage conditions.



10.3 Possibility of hazardous	Polymerization reaction may occur
reactions	if contact with strong acids bases
	or oxidizing agents.
10.4 Conditions to avoid	High temperatures, open flames,
	direct sunlight.
10.5 Incompatible materials	Strong oxidizing agents, strong
-511	acids and bases, polymerization
LOID	initiators.
10.6 Hazardous decomposition	Carbon monoxides, carbon dioxide.
products	

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 177 mg/kg
	LD50 (Dermal, Rabbit): no data
	available
	LC50 (Inhalation Rat): 1.17 mg/l (4hr)
Skin corrosion/Irritation:	Can cause skin irritation
Serious eye damage/irritation:	Can cause eye irritation
Respiratory damage/irritation:	Can cause respiratory irritation
Ingestion:	Can cause gastrointestinal irritation
Germ cell mutagenicity:	No data available
Carcinogenicity:	Suspected of causing cancer
Reproductive toxicity:	No data available
Specific target organ toxicity -	May cause respiratory irritation
single exposure:	
Specific target organ toxicity -	Can cause serious organ damage
repeated exposure:	(nose)
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	LAI PAKINFF
information	
Biodegradability:	Readily Biodegradable



SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): no data available
Aquatic toxicity:	EC50(daphnia): no data available
	ErC50(algae): no data available
12.2 Persistence and	Readily Biodegradable
degradability:	
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Water, mild soap or detergents,

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	2874
IMDG, IATA:	
14.2 UN proper shipping name ·	FURFURYL ALCOHOL
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	6.1
ADR, ADN, IMDG, IATA :	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is classified in listed
regulations/legislation specific	substances as acute toxic
for the substance or mixture	substance
Directive 2012/18/EU	



Named dangerous substances:	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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