CAS No: 111-30-8 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

Product form : Mixture : CAS No : 111-30-8 Product code : 03966 Formula : C5H8O2 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Use of the substance/mixture : 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 Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb, (141007) +91 931677775, +91 7707855700 sales@labogens.comwww.Labogens.com 1.4. Emergency telephone number Emergency number : +91 7707855700 (9:00am - 6:00 pm)	SECTION 1: Identification of the subst	tance/mixture and of the company/undertaking
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	SECTION 2: Hazards identification	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	2.1. Classification of the substance	ce or mixture
	Classification according to Regulation	n (EC) No. 1272/2008 [CLP]

Acute toxicity (oral),	H302
Category 4	
Acute toxicity (inhal.),	H332
Category 4	
Skin corrosion/irritation,	H314
Category 1B	
Sensitisation —	H334
Respiratory, category 1	
Sensitisation — Skin,	H317
category 1	
Specific target organ	H370
toxicity — single	
exposure, Category 1	
Hazardous to the aquatic	H400
environment — Acute	
Hazard, Category 1	
, 5 * j	

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Z.Z. Laber cicilients	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS05 GHS07 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H370 - Causes damage to organs H400 - Very toxic to aquatic life
Precautionary statements (CLP)	 P260 - Do not breathe dust, fume, gas, vapours, spray, mist P273 - Avoid release to the environment 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 P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

No additional information available

SECTIO	ON 3: Composition/information on ingredients
3.1.	Substance
Not app	plicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	75 - 99	Not classified

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Glutaraldehyde	(CAS No) 111-30-8 (EC no) 203-856-5 (EC index no) 605-022-00-X	5 - 10	Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Resp. Sens. 1, H334 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	5 - 10	Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measu	ures
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. I experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). 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. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	 Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms ar	nd effects, both acute and delayed
Symptoms/injuries	 Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate r	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.
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Safety Data Sheet

SECTION 6: Accidental release measure	IS
6.1. Personal precautions, protective	e 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 contai	inment 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	: Do not breathe dust, fume, gas, vapours, spray, mist. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2. Conditions for safe storage, inc	luding any incompatibilities
7.2. Conditions for safe storage, include Technical measures	Iuding any incompatibilities : Comply with applicable regulations.
Technical measures	: Comply with applicable regulations.
Technical measures Storage conditions	: Comply with applicable regulations.
Technical measures Storage conditions 7.3. Specific end use(s)	Comply with applicable regulations.Keep container tightly closed.

No additional information available

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8.2. Exposure controls			
Hand protection	: Protective gloves		
Eye protection	: Chemical goggles or face shield		
Skin and body protection	: Wear suitable protective clothing		
Respiratory protection	: In case of inadequate ventilation	wear respiratory protection	
SECTION 9: Physical and chemical prop	perties		
9.1. Information on basic physical a			
Physical state	: Liquid		
Colour	: Yellow.		
Odour	: sharp, fruity, medicinal.		
Odour threshold	: No data available		
pH	: 3.1 - 4.5		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: -10 °C		
Freezing point	: No data available		
Boiling point	: 101 °C		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: 0.0203 hPa at 20 °C		
Relative vapour density at 20 °C	: 0.8		
Relative density	: No data available		
Density	: 1.06 g/cm³		
Solubility	: Water: Soluble in water		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity Thermal decomposition generates : Corros	ivo vopours		
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10.2. Chemical stability	
No additional information available	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temper	atures.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produc	ts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effect	ts
Acute toxicity :	Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation :	Causes severe skin burns and eye damage.
	pH: 3.1 - 4.5
Serious eye damage/irritation :	Serious eye damage, category 1, implicit
	pH: 3.1 - 4.5
Respiratory or skin sensitisation :	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May
Respiratory of skin sensitisation .	cause an allergic skin reaction.
Germ cell mutagenicity :	Not classified
Carcinogenicity	Not classified
Carcinogenicity .	Not classified
Reproductive toxicity :	Not classified
i j	Causes damage to organs.
exposure)	Causes damage to organs.
Specific target organ toxicity (repeated :	Not classified
exposure)	
Aspiration hazard :	Not classified
Potential adverse human health effects :	Harmful if swallowed. Harmful if inhaled.
and symptoms	
SECTION 12: Ecological information	
12.1 Toxicity	
12.1. Toxicity	
No additional information available	

Safety Data Sheet

12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	emont
No additional information available	Shicht
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to
recommendations	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	A / ADN
14.1. UN number	
UN-No. (ADR)	: 3082
	: 3082 : 3082
UN-No. (ADR)	
UN-No. (ADR) UN-No. (IMDG)	: 3082
UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA)	: 3082 : 3082
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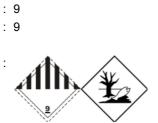
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IMDG

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



ΙΑΤΑ
Transport hazard class(es) (IATA)
Hazard labels (IATA)



ADN Transport hazard class(es) (ADN)	: Not regulated
RID Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: M6
Special provision (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4

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Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	90 3082
Tunnel restriction code (ADR)	: E
EAC code	: •3Z
- Transport by sea	
Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
MFAG-No	: 171
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provision (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L
- Inland waterway transport Not regulated	

- Rail transport

Not regulated

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

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Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	:	Water hazard class (WGK) 3, strongly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Denmark		

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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H332	Harmful if inhaled

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H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H370	Causes damage to organs	
H400	Very toxic to aquatic life	

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