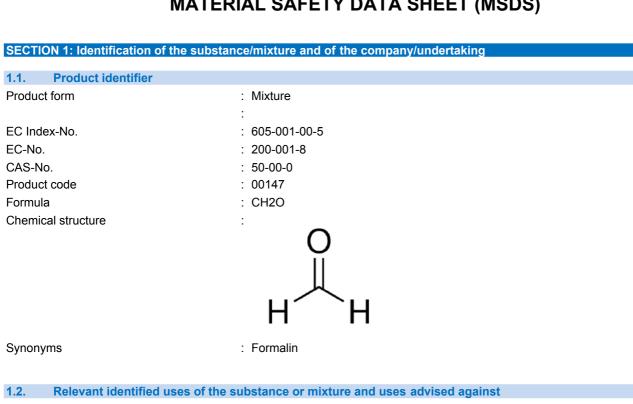


CAS-No.: 50-00-0 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)



Relevant identified uses 1.2.1

Industrial/Professional use spec

: Industrial For professional use only

Uses advised against 1.2.2.

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 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

1.4. **Emergency telephone number**

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral),	H301
Category 3 Acute toxicity (dermal),	H311
Category 3	

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Acute toxicity (inhal.), Category 3	H331
Skin corrosion/irritation,	H314
Category 1B Serious eye damage/eye	H318
irritation, Category 1 Skin sensitisation,	H317
Category 1 Carcinogenicity, Category	H351
2 Specific target organ	H370
toxicity — Single	1107 0
exposure, Category 1 Specific target organ	H335
toxicity — Single exposure, Category 3,	
Respiratory tract irritation	

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
	a 4070/2008 [CL D]
Labelling according to Regulation (EC) N	10. 12/2/2006 [CLP]
Hazard pictograms (CLP)	
	GHS05 GHS06 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H370 - Causes damage to organs.
Precautionary statements (CLP)	 P260 - Do not breathe 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/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. P310 - Immediately call a POISON CENTER/doctor

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	50 - 55	Not classified
Formaldehyde	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5	37 - 38	Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H335 Skin Sens. 1, H317
Methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X	8 - 12	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-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measure	es
First-aid measures general	: Suspected of causing cancer.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. 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). Gently wash with plenty of soap and water. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).
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/doctor.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label). Do NOT induce vomiting.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Causes severe skin burns and eye damage. Causes damage to organs. May cause an allergic skin reaction. May cause respiratory irritation. Fatal in contact with skin. Causes serious eye damage. Toxic if swallowed.

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4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
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.
5.0 Outstick homenda prisis a from the	
5.2. Special hazards arising from the	a substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.4.2 For emergency reenenders	
6.1.2. For emergency responders	Lie personal protective equipment of required
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area. Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contai	
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 get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing
	dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. 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 hands, forearms and face
	thoroughly after handling. 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
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container tightly closed.
7.2 Chapific and upp(p)	
7.3. Specific end use(s) No additional information available	
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
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	: Wear respiratory protection.
SECTION 9: Physical and chemical prop	
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid
Colour	: Clear Colorles.
Odour	: Pungent.
Odour threshold	: No data available
рН	: 2.8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -150 °C
Freezing point	: No data available
Boiling point	: 96 °C
Flash point	: 64 °C
Auto-ignition temperature	: 300 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1.3 mm Hg at 20°C
Relative vapour density at 20 °C	: 1.04
Relative density	: No data available
Density Solubility	: 1.08 g/cm ³ : Water: Infinitely soluble
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	: 0.07 - 0.73 vol %

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SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No add	litional information available
10.2.	Chemical stability
Stable	under normal conditions.
10.3.	Possibility of hazardous reactions
No add	litional information available
10.4.	Conditions to avoid
D : 1	

Direct sunlight. Overheating. Open flame. Heat.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 2.8
Serious eye damage/irritation	: Causes serious eye damage. pH: 2.8
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Causes damage to organs. May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Toxic if swallowed. Fatal in contact with skin.

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SECTION 12: Ecological information	
12.1. Toxicity	
12.1. Toxicity No additional information available	
42.2 Development and degradability	
12.2. Persistence and degradability No additional information available	
12.3. Bioaccumulative potential	
12.3. Bioaccumulative potential No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asse	ssment
No additional information available	
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 hazardous or special waste collection point, in
recommendations	accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
14.1. UN number	
UN-No. (ADR)	: 2209
UN-No. (IMDG)	: 2209
UN-No. (IATA)	: 2209
UN-No. (ADN)	: 2209
UN-No. (RID)	: 2209
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: FORMALDEHYDE SOLUTION
Proper Shipping Name (IMDG)	: FORMALDEHYDE SOLUTION
Proper Shipping Name (IATA)	: Formaldehyde solution
Proper Shipping Name (ADN)	: FORMALDEHYDE SOLUTION
Proper Shipping Name (RID)	: FORMALDEHYDE SOLUTION
Transport document description (ADR)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III, (E)
Transport document description (IMDG)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III
Transport document description (IATA)	: UN 2209 Formaldehyde solution, 8, III
Transport document description (ADN)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III
Transport document description (RID)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III

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14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8
	8
IMDG	
Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8
с (,	
14.7.4	
IATA Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	. o : 8
	. 0
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
	· .
RID	
Transport hazard class(es) (RID)	: 8
Danger labels (RID)	: 8
	8
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: III
Dooking group $(I\Lambda T\Lambda)$	

Packing group (RID)
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Packing group (IATA) Packing group (ADN) : 111

: 111

: 111

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14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
14.0. Special precautions for user	
- Overland transport	
Classification code (ADR)	: C9
Special provisions (ADR)	: 533
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	80 2209
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-B
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless, clear liquid, with a suffocating pungent odour. Usually stabilized with methyl alcohol. Miscible with water. Causes burns to skin, eyes and mucous membranes.
MFAG-No	: 132
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO positing instructions (IATA)	2 8EC

CAO packing instructions (IATA)

CAO max net quantity (IATA)

Special provisions (IATA)

: 856

: 60L

: 8i

: A803

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- Inland waterway transport		
Classification code (ADN)		C9
Special provisions (ADN)	-	533
Limited quantities (ADN)		5 L
Excepted quantities (ADN)	-	E1
Carriage permitted (ADN)	-	T
Equipment required (ADN)	-	PP, EP
		0
Number of blue cones/lights (ADN)	•	0
- Rail transport		
Classification code (RID)	:	C9
Special provisions (RID)	:	533
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions (RID)	:	TP1
Tank codes for RID tanks (RID)	:	L4BN
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Colis express (express parcels) (RID)	:	CE8
Hazard identification number (RID)	:	80

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 REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 3, Highly 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. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Formaldehyde is listed
SZW-lijst van mutagene stoffen	: None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are 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
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 H- and EUH-statements:

Full text of H- and EOH-statements.				
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2			
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			
Carc. 2	Carcinogenicity, Category 2			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Flam. Liq. 2	Flammable liquids, Category 2			
Skin Corr. 1B	Skin corrosion/irritation, Category 1B			
Skin Sens. 1	Skin sensitisation, Category 1			
STOT SE 1	Specific target organ toxicity — Single exposure, Category 1			
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation			
H225	Highly flammable liquid and vapour.			
H301	Toxic if swallowed.			
H310	Fatal in contact with skin.			
H311	Toxic in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H317	May cause an allergic skin reaction.			
H318	Causes serious eye damage.			
H331	Toxic if inhaled.			
H335	May cause respiratory irritation.			
H351	Suspected of causing cancer.			
H370	Causes damage to organs.			

Safety Data Sheet

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.