ACETALDEHYDE SOLUTION FOR SYNTHESIS MSDS

CAS-No.: 75-07-0 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Mixture

:

EC-No. : 200-836-8
CAS-No. : 75-07-0
Product code : 00508
Formula : C2H4O

Chemical structure :

H₃C /O

Synonyms : Ethanal

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

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]

Flammable liquids, H224 Category 1 Serious eye damage/eye H319 irritation, Category 2

Carcinogenicity, Category H351

Specific target organ H335

toxicity - Single

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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**

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

Hazard pictograms (CLP)







GHS02

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H224 - Extremely flammable liquid and vapour.

> H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.

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

> 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.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. **Substances**

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETALDEHYDE SOLUTION For Synthesis	(CAS-No.) 75-07-0 (EC-No.) 200-836-8	25 - 50	Flam. Liq. 1, H224 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335

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WATER AR	(CAS-No.) 7732-18-5	70 - 80	Not classified
	(EC-No.) 231-791-2		

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

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 : Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

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

and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation : May cause respiratory irritation.

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

Chronic symptoms : Suspected carcinogen.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable liquid and vapour. Explosion hazard : Heating may cause a fire or explosion.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when

fighting any chemical fire. Prevent fire fighting water from entering the environment.

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

protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open

flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

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Environmental precautions

Avoid release to the environment. Do not allow water (or moist air) contact with this material.

Methods and material for containment and cleaning up

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Collect spillage. Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling 7.1.

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling

: Avoid contact with skin and eyes. Provide good ventilation in process area to prevent

formation of vapour. Keep away from sources of ignition - No smoking. Do not

breathe vapours. Use only outdoors or in a well-ventilated area.

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

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Specific end use(s) 7.3.

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : protective gloves

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

Respiratory protection : Wear appropriate mask

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 44.05 g/mol : Clear Colorless. Colour

Odour : Pungent.

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Odour threshold : No data available

pH : No data available

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

Melting point : No data available

Freezing point : No data available

Boiling point : 62 °C

Flash point : < -17 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapour.

Flammable solid.

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Solubility : Water: Complete

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 : 0.04 - 0.6 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

No additional information available

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Suspected of causing cancer.

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects

and symptoms

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

ACETALDEHYDE SOLUTION For Synthes	sis (75-07-0)

Persistence and degradability Not established.

12.3. Bioaccumulative potential

ACETALDEHYDE SOLUTION For Synthesis (75-07-0)

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

: Dispose in a safe manner in accordance with local/national regulations.

recommendations

Additional information

: Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1089 UN-No. (IMDG) : 1089 UN-No. (IATA) : 1089 UN-No. (ADN) : 1089 UN-No. (RID) : 1089

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ACETALDEHYDE
Proper Shipping Name (IMDG) : ACETALDEHYDE
Proper Shipping Name (IATA) : Acetaldehyde
Proper Shipping Name (ADN) : ACETALDEHYDE
Proper Shipping Name (RID) : ACETALDEHYDE

Transport document description (ADR) : UN 1089 ACETALDEHYDE, 3, I, (D/E)
Transport document description (IMDG) : UN 1089 ACETALDEHYDE, 3, I (-27°C c.c.)

Transport document description (IATA) : UN 1089 Acetaldehyde, 3, I
Transport document description (ADN) : UN 1089 ACETALDEHYDE, 3, I
Transport document description (RID) : UN 1089 ACETALDEHYDE, 3, I

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3

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IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P001
Mixed packing provisions (ADR) : MP7, MP17

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: T11

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Portable tank and bulk container

instructions (ADR)

Portable tank and bulk container special : TP2, TP7

provisions (ADR)

Tank code (ADR) : L4BN Tank special provisions (ADR) : TU8 Vehicle for tank carriage : FL Transport category (ADR) : 1 Special provisions for carriage - Operation : S2, S20

(ADR)

Hazard identification number (Kemler No.) : 33

Orange plates

33 1089

Tunnel restriction code (ADR) : D/E EAC code : •2YE

- Transport by sea

: 0 Limited quantities (IMDG) Excepted quantities (IMDG) : E0 Packing instructions (IMDG) : P001 : T11 Tank instructions (IMDG) Tank special provisions (IMDG) : TP2, TP7 EmS-No. (Fire) : F-E : S-D EmS-No. (Spillage) : E Stowage category (IMDG) : -27°C c.c. Flash point (IMDG) MFAG-No : 129

- Air transport

PCA Excepted quantities (IATA) : E0

PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity : Forbidden

(IATA)

: Forbidden PCA packing instructions (IATA) : Forbidden PCA max net quantity (IATA)

CAO packing instructions (IATA) : 361 CAO max net quantity (IATA) : 30L : A1 Special provisions (IATA) : 3H ERG code (IATA)

- Inland waterway transport

Classification code (ADN) : F1 : 0 Limited quantities (ADN) Excepted quantities (ADN) : E0 Carriage permitted (ADN) : T

: PP, EX, A Equipment required (ADN) Ventilation (ADN) : VE01 Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : F1 : 0 Limited quantities (RID) : E0 Excepted quantities (RID) Packing instructions (RID) : P001

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Mixed packing provisions (RID) : MP7, MP17

Portable tank and bulk container : T11

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP2, TP7

: L4BN Tank codes for RID tanks (RID) Special provisions for RID tanks (RID) : TU8 Transport category (RID) : 1 Hazard identification number (RID) : 33

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

Not applicable

SECTION 15: Regulatory information

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) 1, Slightly 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 : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed NIET-limitatieve lijst van voor de : None of the components are listed

voortplanting giftige stoffen - Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling

: None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be

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

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF

THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and

1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None

Full text of H- and EUH-statements:

Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H224	Extremely flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

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.

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