

Printing date 04.04.2024 Version: 9 (replaces version 8) Revision: 02.04.2024

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

· 1.1 Product identifier

**ACETALDEHYD** · Trade name:

· CAS Number: 75-07-0 200-836-8 · EC number: · Index number: 605-003-00-6 · Registration number: 01-2119451152-51

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

No further relevant information available

· Application of the substance /

the mixture Chemical intermediate

For industrial use

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: PERGAN GmbH

Hilfsstoffe für industrielle Prozesse

Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50

· Further information obtainable

from:

Qualified person: E-mail: msds@pergan.com

1.4 Emergency telephone

number: - Tel: +49 2871 9902-0

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 1 H224 Extremely flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008

Hazard pictograms

The substance is classified and labelled according to the GB CLP regulation.

GHS02 GHS07

· Signal word

Danger

· Hazard-determining

components of labelling:

acetaldehyde

Hazard statements

H224 Extremely flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Precautionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210 smokina.

P240 Ground and bond container and receiving equipment. P243

Take action to prevent static discharges.

P264 Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection/hearing P280 protection

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations

· Additional information: Restricted to professional users.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII. This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII. · vPvR·

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

· 3.1 Substances

**CAS No. Description** 75-07-0 acetaldehyde

Identification number(s)

· EC number: 200-836-8 · Index number: 605-003-00-6

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

· 4.1 Description of first aid measures

General information:

Take care of personal protection for the first aider.

· After inhalation: Take affected persons into fresh air and keep quiet.

After skin contact: Immediately remove contaminated clothing.

· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate

medical attention and special treatment needed

No further relevant information available.

No further relevant information available.

## **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from

the substance or mixture Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters Protective equipment: Additional information

Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray.

Self-protection first!

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

 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government

regulations.

See Section 7 for information on safe handling. · 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

In case of large spillage the environmental authority should be informed.

## **SECTION 7: Handling and storage**

· 7.1 Precautions for safe

handling Keep away from heat and direct sunlight. Open and handle receptacle with care.

Prevent formation of aerosols.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Before break and at the end of work hands should be thoroughly washed.

While using do not eat, drink or smoke. Do not generate flames or sparks.

Take precautionary measures against static discharges.

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The pressure in sealed containers can increase under the influence of heat.

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Information about fire - and explosion protection:

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools. Highly volatile, flammable constituents are released during processing.

Fumes can combine with air to form an explosive mixture.

Wear shoes with conductive soles.

Formation of flammable or explosive gas/air-mixtures is possible.

· 7.2 Conditions for safe storage, including any incompatibilities

Storage:Requirements to be met by

Pay attention to the special requirements of your local autorithies for storing dangerous goods.

storerooms and receptacles:

Store in a cool location.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

Information about storage in one common storage facility: Further information about storage conditions:

Store away from foodstuffs, drinks and feeding stuffs.

Keep container tightly sealed. Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight. Store receptacle in a well ventilated area.

Recommended storage temperature (To maintain

max.: +20 °C

quality): Storage class:

3

Protect from contamination.

· 7.3 Specific end use(s) No further relevant information available

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

8.1 Control parameters

 $\cdot$  Ingredients with limit values that require monitoring at the workplace:

75-07-0 acetaldehyde

WEL (Great Britain) Short-term value: 92 mg/m³, 50 ppm

Long-term value: 37 mg/m³, 20 ppm

Carc

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls · Appropriate engineering

**controls** No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and

hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

Be sure to clean skin thoroughly after work and before breaks.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer

exposure use self-contained respiratory protective device.

Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.

Filter AX

· Hand protection Only use chemical-protective gloves with CE-labelling of category III.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Protective gloves

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of

quality and varies from manufacturer to manufacturer.

Butvl rubber. BR

Fluorocarbon rubber (Viton)

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Nitrile rubber, NBR

Neoprene

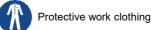
Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be

· Eye/face protection

Tightly sealed goggles

· Body protection:



## **SECTION 9: Physical and chemical properties**

<ul> <li>9.1 Information on basic physical and chemical propertie</li> </ul>	<ul> <li>9.1 Information</li> </ul>	on basic	physical a	and chemical	properties
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· General Information

· Physical state Fluid Colourless · Colour: · Odour: Pungent · Melting point/freezing point: -123 °C 20.4 °C Boiling point or initial boiling point and boiling range Not applicable.

· Flammability Lower and upper explosion limit

· Lower: 4 Vol % · Upper: 60 Vol % Flash point: -39 °C · Auto-ignition temperature: 155 °C 420 °C · Decomposition temperature:

· pH Viscosity:

· Kinematic viscosity Not determined. Dynamic at 15 °C: 0.25 mPas

Solubility · water:

Partition coefficient n-octanol/water (log value) 0.45 log POW · Vapour pressure at 20 °C: 1,006 hPa

· Density and/or relative density

Density at 20 °C: 0.784 g/cm<sup>3</sup> · Relative density Not determined · Vapour density Not determined.

## · 9.2 Other information

· Appearance:

· Form: Liquid

· Important information on protection of health and environment,

and on safety.

· Ignition temperature: Not determined.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour

Not determined.

Undetermined.

mixtures are possible.

· Change in condition · Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void

· Flammable liquids Extremely flammable liquid and vapour.

Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Self-heating substances and mixtures Void

· Substances and mixtures, which emit flammable gases in

contact with water Void **Oxidising liquids** Void Void Oxidising solids · Organic peroxides Void

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 Corrosive to metals Void Desensitised explosives Void

## **SECTION 10: Stability and reactivity**

No further relevant information available. · 10.1 Reactivity

· 10.3 Possibility of hazardous

reactions

No dangerous reactions known. · 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition

Additional information:

products:

No hazardous decomposition products if used and stored according to specifications.

Emergency procedures will vary depending on conditions. The customer should have an emergency

response plane in place.

## **SECTION 11: Toxicological information**

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

75-07-0 acetaldehyde

Inhalative LC50 / 4h 24.04 mg/l (rattus)

Serious eye damage/irritation Causes serious eye irritation. STOT-single exposure May cause respiratory irritation.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

75-07-0 acetaldehyde

LC50 / 96h | 30.8 mg/l (fish) EC50 / 48h 48.3 mg/l (daphnia)

12.2 Persistence and degradability

Degree of elimination:

· Classification:

75-07-0 acetaldehyde

Degradation (Readily biodegradable) (OECD 301 C)

12.3 Bioaccumulative potential

· Partition coefficient: nOctanol/water: [Log Kow]

0,45 (25°C)

· 12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

· PBT: This substance does not meet the PBT/vPvB criteria of UK REACH. Annex XIII. This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII. · vPvB:

· 12.6 Endocrine disrupting

properties The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

· Additional ecological information:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

system.

#### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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· Waste disposal key: Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-

number.

Uncleaned packaging:

Recommendation:

This material and its container must be disposed of as hazardous waste.

· Recommended cleansing

agents:

Water, if necessary together with cleansing agents.

## **SECTION 14: Transport information**

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN1089

· 14.2 UN proper shipping name

· ADR **UN1089 ACETALDEHYDE** 

· IMDG, IATA **ACETALDEHYDE** 

· 14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.

Label

· IMDG, IATA



Class 3 Flammable liquids.

Label

· 14.4 Packing group · ADR, IMDG, IATA

· 14.5 Environmental hazards: Not applicable

· 14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code): 33 · Stowage Category F

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· Transport category Tunnel restriction code D/E

· RID / GGVSEB: like ADR

· Limited quantities (LQ) 0

 Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

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Reportable poisons

None of the ingredients is listed.

Directive 2012/18/EU

· Named dangerous substances

- ANNEX I Substance is not listed. · Seveso category P5a FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier 10 t requirements Qualifying quantity (tonnes) for the application of upper-tier requirements

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex

None of the ingredients is listed.

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Other regulations, limitations and prohibitive regulations

· Please note: Take care of the respective local regulations.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Tel: +49 2871 9902-0 · Contact:

E-mail: mail@pergan.com

· Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International

Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic PBT: Persistent, Bloaccumulative and Volc PVB: very Persistent and very Bioaccumulative Flam. Liq. 1: Flammable liquids – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure)

\* Data compared to the previous version altered.

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