

SAFETY DATA SHEET

According to regulations (CE) No. 1907/2006 and 2015/830



Revision date : 29/06/2016

Version 16.2

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

1.1 Product identifier

Catalogue N: **973**

Product name: **Propanal solution 10 g/l**

REACH registration number: This product is a mixture. REACH Registration Number see section 3.

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

Identified uses: Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company: Laboratoires Dujardin-Salleron 37210 Noizay France Tél. +33 (0)2 47 25 58 25
E-mail : info@dujardin-salleron.com - site : www.dujardin-salleron.com

1.4 Emergency telephone number France : INRS : +33 (0)1 45 42 59 59

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) N° 1272/2008)

This product is not classified as dangerous according to Regulation (EC) N° 1272/2008.

2.2 Label elements

Labeling (Regulation (CE) N° 1272/2008)

No labeling required according to Regulation (EC) N° 1272/2008.

2.3 Other hazards

None known.

SECTION 3. Composition/informations on ingredients

Chemical nature: *Aqueous solution*

3.1 Substance: not applicable

3.2 Mixture:

Hazardous components (REGULATION (EC) No N° 1272/2008)

Chemical name (Concentration):

Propionaldehyde (~ 1%)

N°CAS	N° CE	N° REACH	Classification
123-38-6	204-623-0	01-21194556625-33-XXXX	Flammable liquid, Category 2, H225 Skin irritation, Category 2, H315 Eye irritation, Category 2, H319 Specific target organ toxicity – single exposure, Category 3, H335

For the full text of the H-Statements mentioned in this section, see Section 16

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water. Call in ophthalmologist if irritation persists.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician in the event of faintness.

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4.2 Most important symptoms and effects, both acute and delayed

At high concentrations : irritant effects, cough, shortness of breath, narcosis, tiredness.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water, carbon dioxide (CO₂), foam, dry powder.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Non combustible product.

Development of hazardous combustion gases or vapors possible in the event of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid mixture contact. Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment, see section 8.

6.2 Environmental precautions

Do not discharge to sewers and natural waters.

6.3 Methods and materials for containment and cleaning up

Cover drains. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Trivorex® (PREVOR)). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment, see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling Advice on safe handling

Avoid contact with skin and eyes.

Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Store at +15°C to +15°C (recommended).

Keep container tightly closed in a dry and well ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8. Exposure controls / personal protection

8.1 Control parameters

This mixture contains no components with occupational exposure limits

8.2 Exposure controls

Engineering measures

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Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with mixture.

Eye/face protection

Safety glasses

Hand protection

full contact:

Glove material: Nitrile rubber

Glove thickness: 0,11 mm

Break through time: > 480 min

Splash contact:

Glove material: Nitrile rubber

Glove thickness: 0,11 mm

Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Other protective equipment

Body protection

Wear a chemical resistant protective clothing, with CE marking

Respiratory protection

Required when vapors/aerosols are generated.

Recommended filter type: A.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not empty into drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid.
Color	colorless.
Odor	slightly bitter.
Odor Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapor pressure	No information available.
Relative vapor density	No information available.
Relative density	No information available.
Water solubility	soluble.
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	No information available.

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Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.

9.2 Other data

Bulk density	No information available.
Refraction index	No information available.
Dissociation constant	No information available.
Surface tension	No information available.
Henry constant	No information available.

SECTION 10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is chemically stable for 6 months under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Exothermic reaction with:
Strong bases, mineral acids, oxidizing agents.

10.4 Conditions to avoid

Warming. Direct sunlight.

10.5 Incompatible materials

Oxidizing agents, strong bases and strong reducing agents.

10.6 Hazardous decomposition products in the event of fire

In the event of fire: see section 5

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Mixture

Acute oral toxicity

Effective dose - species - exposure time No information available.

Acute inhalation toxicity

Effective dose - species - exposure time No information available.

Acute dermal toxicity

Effective dose - species - exposure time No information available.

Skin irritation

Potential effects: mild irritation

Effective dose - species - exposure time No information available.

Eye irritation

Potential effects: mild irritation

Effective dose - species - exposure time No information available.

Sensitization (skin, inhalation)

No information available.

Specific target organ toxicity - single exposure

May cause respiratory irritation, at high concentrations.

Specific target organ toxicity - repeated exposure

The mixture is not classified as specific target organ toxicant, repeated exposure.

*Germ cell mutagenicity, carcinogenicity,
reproductive toxicity, teratogenicity*

No information available.

Aspiration hazard

No information available.

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Substance

Propionaldehyde (123-38-6)

Acute oral toxicity

LD50 rat: 1.410 mg/kg

Symptoms: irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

Acute inhalation toxicity

LC50 rat: 62,6 mg/l; 30 min

Symptoms: mucosal irritations, cough, shortness of breath, possible damages: damage of respiratory tract

Acute dermal toxicity

LD50 rabbit: 2.460 mg/kg

Skin irritation

Rabbit - Result: irritations

Eye irritation

Rabbit - Result: severe irritations

Genotoxicity in vivo

Mutagenicity (mammal cell test): micronucleus.

Result: negative

Genotoxicity in vitro

Ames test

Result: negative

Specific target organ toxicity - single exposure

May cause respiratory irritation

Specific target organ toxicity - repeated exposure

The substance is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Based on available data the classification criteria are not met.

Further information

Systemic effects: tiredness, narcosis

11.2 Further information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological Information

Mixture

12.1 Ecotoxicity

Acute (short-term) fish toxicity

LC50 - EC50 - species - exposure time

No information available.

Chronic (long-term) fish toxicity

LC50 - EC50 - species - exposure time

No information available.

Acute (short-term) daphnia toxicity

LC50 - EC50 - species - exposure time

No information available.

Chronic (long-term) daphnia toxicity

LC50 - EC50 - species - exposure time

No information available.

Acute (short-term) algae toxicity

LC50 - EC50 - species - exposure time

No information available.

Chronic (long-term) algae toxicity

LC50 - EC50 - species - exposure time

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

Substance

Propionaldehyde (123-38-6)

Toxicity to fish

LC50 Pimephales promelas (fathead minnow): 14 mg/l; 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia: 88,7 mg/l; 48 h

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Toxicity to algae

IC50 Pseudokirchneriella subcapitata (green algae): 58 mg/l; 72 h

Toxicity to bacteria

EC5 Pseudomonas putida: 124 mg/l; 14 h

Persistence and degradability

Biodegradability: 91 - 97 %; 28 d MITI test

Readily biodegradable.

Ratio BOD/ThBOD BOD5 38 %

Ratio COD/ThBOD 97 %

Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: 0,59 (calculated) (IUCLID)

Bioaccumulation is not expected.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Additional/ ecological information

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods

Waste must be disposed of in accordance with the Directive on waste 2008/98/EC and with local and national regulations. Leave chemicals in original containers. No mixing with other waste. Treat uncleaned containers like the product itself.

SECTION 14. Transport information

Classification

Substance

The product is classified as a dangerous good under the transportation regulations (land, sea, air) as:
PROPIONALDEHYDE - UN 1275 - class 3

Mixture

Land transport (ADR / RID) 14.1 - 14.6

The mixture is not subject to regulations for road transport, as a consequence of the substance concentration.

Air transport (IATA) 14.1 - 14.6

The mixture is not subject to regulations for air transport, as a consequence of the substance concentration.

Sea transport IMDG 14.1 - 14.6

The mixture is not subject to regulations for sea transport, as a consequence of the substance concentration.

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

Not relevant

SECTION 15. Regulatory information

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

UE regulations

Aquatic Class risk (WGK)

WGK1 (slightly hazardous for water).

Occupational restrictions

Take note of Directive 94/33/EC on the protection of young people at work and Directive 92/85/EEC on the safety and health at work of pregnant women

Substances of very high concern (SVHC)

This product does not contain substances of very high concern above the respective regulatory limit (> 0.1% (w/w) Regulation (EC) N° 1907/2006 (REACH), Article 57

15.2 Chemical Safety Assessment

No information available.

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SECTION 16. Other information

Full text of H-Statements referred to under section 3

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.