

Safety Data Sheet
According to Regulation (EC) 1907/2006 and (EU)
453/2010

FO090101 Formaldehyde 3,7-4,0% *buffered to pH=7 and stabilized with methanol

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

1.1 Product identifier

Name:

Formaldehyde 3,7-4,0% *buffered to pH=7 and stabilized with methanol

Synonym:

Formaline, Formol

CAS: [50-00-0]

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

CASA ALVAREZ MATERIAL

CIENTIFICO, S.A.

C/ MAYOR, 70

28013 - MADRID (España)

Tel. (+34) 91 548 10 16

www.casaalvarez.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 91 562 04 20

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Carc. 1B

Muta. 2

Acute Toxicity Inhalation cat. 4

Skin Sens. 1

Classification (67/548/CEE or 1999/45/CE).

Xn Harmful

R45

Xi Irritant

R68

R20/21/22

R43

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

H350 May cause cancer.

H341 Suspected of causing genetic defects.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

For the full text of the R-phrases mentioned in this section, see section 16.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Name: Formaldehyde 3,7-4,0% *buffered to pH=7 and stabilized with methanol

Formula: CH₂O M.= 30,03 CAS [50-00-0]

EC number (EINECS): 200-001-8

EC index number: 605-001-00-5

COMPOSITION:

0001: Methanol

Formula: CH₃OH M.= 32,04 CAS [67-56-1]
EC number (EINECS): 200-659-6
EC index number: 603-001-00-X
REACH Registration Number: 01-2119433307-44-XXXX

Content: <= 3 %

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 2
Acute Toxicity Inhalation cat. 3
Acute Toxicity Dermal cat. 3
Acute Toxicity Oral cat. 3
STOT SE 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H331 Toxic if inhaled.
H311 Toxic in contact with skin.
H301 Toxic if swallowed.
H370 Causes damage to organs.

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection or face protection.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P309 IF exposed or if you feel unwell:
P310 Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

F Highly flammable
T Toxic

R11 Highly flammable.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

0002: Formaldehyde 3,7-4,0% *buffered to pH=7 and stabilized with methanol

Formula: CH₂O M.= 30,03 CAS [50-00-0]

EC number (EINECS): 200-001-8
EC index number: 605-001-00-5
REACH Registration Number: 01-2119488953-20-XXXX

Content: <= 97 %

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 3
Acute Tox. 3
Acute Tox. 3
Skin Corr. 1B
Carc. 1B
Skin Sens. 1
Muta. 2
STOT SE 3

Hazard Pictograms



Signal word

Danger

Hazard statements

H301 Toxic 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.
H350 May cause cancer.
H341 Suspected of causing genetic defects.
H335 May cause respiratory irritation.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, protective clothing, eye protection or face protection.
P281 Use personal protective equipment as required.
P202 Do not handle until all safety precautions have been read and understood.
P201 Obtain special instructions before use.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 Wash...thoroughly after handling.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER or doctor/physician.
P311 Call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see on this label).
P322 Specific measures (see on this label).
P330 Rinse mouth.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

T Toxic	R43 May cause sensitisation by skin contact. R40 Limited evidence of a carcinogenic effect. R34 Causes burns. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
----------------	--

4. First aid measures

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. In the event of irritation, seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Call for medical help.

5. Firefighting measures

5.1 Suitable extinguishing media:

Dry powder. Alcohol resistant foam. Carbon dioxide (CO₂). Water.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Combustible. Keep away from sources of ignition.

5.4 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale the fumes.

6.2 Environmental precautions:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up: Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Neutralize with excess sodium bisulphite solution.

7. Handling and storage

7.1 Precautions for safe handling:

No special indications.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat.

Recommended storage temperature: Room temperature. Restricted access, only authorized to technicians. Do not store in metal containers.

8. Exposure controls/personal protection

8.1 Exposure controls:

Ensure good ventilation and renewal of the air in the premises.

8.2 Control parameters:

VLA-EC(Formaldehyde): 0,37 mg/m³ VLA-EC(Formaldehyde): 0,3 ppm
MAK (Formaldehyde) 0,5 ml/m³; 0,6 mg/m³(methanol) 200 ml/m³; 260 mg/m³

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter A3.

8.4 Hand protection:

Use suitable gloves (neopren, nitrile)

8.5 Eye/face protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use complete protective equipment. Wash hands and face before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Piquant.

pH: 6,8 - 7,2

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

~1,019 g/ml

Solubility: in () Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity**10.1 Conditions to avoid:**

The product is chemically stable under standar ambient conditions (room temperature).

10.2 Incompatible materials:

Polymerization initiators. Alkaline metals. Acids. Nitrogen oxides. Hydrogen peroxide. Oxidant agents. Performic acid.

10.3 Hazardous decomposition products:

No specific data.

10.4 Chemical stability:

No specific data.

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : 100 mg/kg referred to the pure substance

LD50 skn rbt : 270 mg/kg referred to the pure substance

LC50 inh rat : 203 mg/m³

11.2 Dangerous effects for health:

Taking the preparation' components into account, the likely dangerous characteristics are as follows: If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: irritations May cause: allergic reaction Through contact with the eyes: irritations If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 8,5 mg/l

Classification:

Extr. toxic (CH₂O 30-40%)

Bacteria (Ps. putida) EC0 14 mg/l

Classification: Extr. toxic

(CH₂O 30-40%)

Algae (M. aeruginosa) EC0 0,4 mg/l

Classification: Extr. toxic

(CH₂O 30-40%)

Crustaceans (Daphnia magna) 42 mg/l

Classification:

Extr. toxic (CH₂O 30-40%)

Fish (Salmo gairdneri) 214 mg/l

Classification:

Highly toxic (CH₂O 30-40%)

- Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

- Observations:

Extremely toxic.

Inhibits active sludges.

Bactericide effect. Generally toxic for water organisms.

Protoplasmatic toxic.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

DOC 1,06 g/g(CH₂O 30-40%)

BOD₅/COD

Biodegradability

ThOD 1,068 g/g(CH₂O 30-40%)

High, over 1/3

- Abiotic degradation depending on pH:

BOD₅ 0,728 g/g(CH₂O 30-40%)

- Observations:

Biodegradable product.

12.3 Bioaccumulative potential:

- **Test:**

- **Bioaccumulation:**

Risk

- **Observations:**

Non-bioaccumulable product.

12.4 Mobility in soil :

Repartition: $\log P(\text{oct}) = 0,00$ (CH₂O 30-40%)

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Corrosive product, even in diluted form.

Do not allow it to enter soils or water channels.

13. Disposal considerations**13.1 Waste treatment methods:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information**Other precautionary statements**

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P281 Use personal protective equipment as required.
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P321 Specific treatment (see on this label).
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P330 Rinse mouth.
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.

Labelling (65/548/CEE or 1999/45/CE)

R-phrases(s):	<p>R45 May cause cancer. R68 Possible risk of irreversible effects. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R43 May cause sensitisation by skin contact.</p>
S-phrases(s):	<p>S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53 Avoid exposure - obtain special instructions before use. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.</p>

Version and revision date : 6 12.03.2015

Date published: 01.05.2012

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.