

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 05.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.060161.00000
Product Name Formaldehyde Solution %10, Buffered pH:6,8-7,2 (min. %1 Methanol)
Cas no 50-00-0

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

1.2.1. Relevant identified uses

Industrial uses. Scientific research and development. Use as laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute toxicity, Oral, Category 4
Acute toxicity, By inhalation, Category 4
Skin sensitizer, Category 1
Germ cell mutagenicity, Category 2
Carcinogenicity, Category 1B

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

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

Hazard pictograms



Signal word (SEA)

DANGER


Hazard Statements (SEA)

H302 + H332 Harmful if swallowed or if inhaled.
H317 Causes an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350 May cause cancer.

Precautionary Statements (SEA)



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Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P201 Read special instructions before use.

Intervention

P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing.
P308+P313 IF exposed and concerned: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	200-001-8
Molar mass	30.03 g/mol
Cas No	50-00-0
Concentration	(> 1 % - < 5 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Remove casualty to fresh air and keep warm and at rest..
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
<i>Following ingestion</i>	Please give up to two glasses of water. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

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

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Not flammable.. Ambient fire may liberate hazardous vapors..

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours,aerosols.Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures,consult an expert..



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6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Metal packaging should not be used.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Formaldehyde		(50-00-0)
TR MAK	Ceiling value:	5 mbp 6 mg / m ³
Methanol		(67-56-1)
TR MAK	Acceptable maximum concentration (MAK)	200 mbp 260 mg / m ³
TR OEL	8 hour specified for reference time measured or calculated time weighted average (TWA):	200 mbp 260 mg / m ³

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment


Eye/face protection

Safety glasses

Hand protection



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Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

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

Other skin protection

Protective chlothing.

Respiratory protection

Required when vapors are generated.

Recommended filter type : Filter ABEK

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent
Odour	No information.
Odour threshold	No information.
pH value	6,8 - 7,2 20 °C
Melting point/freezing point	No information.
Freezing point	No information.
Initial boiling point and boiling range	95 - 100 °C
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	No information.
Vapour density	No information.
Density	1,01 - 1,02 g/cm ³
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.



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10.3 Possibility of hazardous reactions

Acids, nitrogen oxides, hydrogen peroxide, Oxidizing agents, performic acid, polymerization initiators, Alkali metals, Water can have violent reactions with generally known reaction partners.

10.4 Conditions to avoid

In case of warming.

10.5 Incompatible materials

Zinc alloys. Various plastics. Various metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Acute toxicity estimate: 1.967 mg / kg

Symptoms: Nausea, Vomiting

Acute inhalation toxicity

Symptoms: Inhalation may cause edema in the respiratory system.

Acute toxicity estimate: > 20 mg / l; 4 hrs; steam

Acute dermal toxicity

Acute toxicity estimate: > 2,000 mg / kg

Skin irritation

slight irritation

Drying effect resulting in rough and chapped skin.

Eye irritation

slight irritation

Sensitivity

Mixture may cause an allergic skin reaction.

CMR effects

Carcinogenicity:

Possible carcinogen.


Mutagenicity:

Evidence of a genetic disorder.

11.2 Additional information



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Covers aldehydes in general: irritation after contact with skin and eyes. Mucosal irritation, coughing, and dyspnoea after inhalation.

Covers aliphatic alcohols in general: effects when used improperly: mucosal irritation after taking large quantities; after absorption of large quantities: narcosis.

Carry it in accordance with safety and hygiene rules.

Components

Formaldehyde

Acute oral toxicity
LD50 Rat: 100 mg / kg
(Source)

Acute inhalation toxicity
Acute toxicity estimate: 3.1 mg / l; steam

Acute dermal toxicity
Acute toxicity estimate: 300.1 mg / kg

Methanol

Acute oral toxicity
Acute toxicity estimate: 100.1 mg / kg

LDLO human: 143 mg / kg
(RTECS)

Acute inhalation toxicity
LC50 Rat: 131.25 mg / l; 4 hrs; steam
(ECHA)

Acute dermal toxicity
LD50 Rabbit: approx 17,100 mg / kg

SECTION 12: Ecological information

12.1 Toxicity

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

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Discharge into environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR

IMDG

IATA

ADN

RID



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14.1 UN number

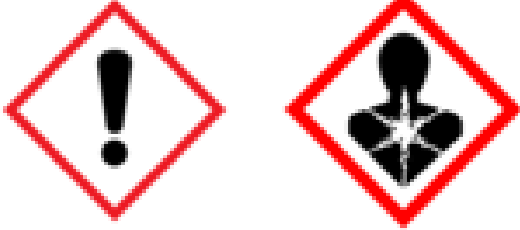
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14.2 UN proper shipping name

It is not classified as dangerous goods. It is not classified as dangerous goods. It is not classified as dangerous goods. It is not classified as dangerous goods. It is not classified as dangerous goods.

14.3 Transport hazard class(es)

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14.4 Packing group

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14.5 Environmental hazards

NO NO NO NO NO

No information available. No information available. No information available. No information available. No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

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

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements


H302 + H332 Harmful if swallowed or if inhaled.
H317 Causes an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350 May cause cancer.

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER
Certificate Number and Date: 11.29.03 & 11 Şubat 2020
Communication information: 05069903686



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