

# Safety Data Sheet

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

Revision Date: 04.08.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.060160.00000  
Product Name Formaldehyde Solution %37 (Stabilized min.%10 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

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, Category 3, Oral  
Acute toxicity, Category 3, If inhaled  
Acute toxicity, Category 3, Dermal  
Skin corrosion, Category 1B  
Skin sensitization, Category 1  
Germ cell mutagenicity, Category 2  
Carcinogenicity, Category 1B  
Specific Target Organ Toxicity - Single exposure, Category 1, Eyes  
Specific Target Organ Toxicity - Single exposure, Category 3, Respiratory system

For the full text of the H and EUH statements 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)

H350 May cause cancer.  
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 Causes an allergic skin reaction.  
H335 May cause respiratory irritation.  
H341 Suspected of causing genetic defects.  
H370 Causes damage to organs (Eyes).

Precautionary Statements (SEA)



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## Prevention

P280 Wear protective gloves / goggles / and protective clothing.  
P201 Obtain special instructions before use.

## Intervention

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not try to hesitate.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: If breathing is difficult, remove victim to fresh air and keep comfortable for breathing easily.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for a few minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 If exposed or 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	(37 % - 40 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
Following ingestion	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

Water. Foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media

There is no restriction for this item.

### 5.2 Special hazards arising from the substance or mixture

Heavy vapors from the air may occur on the floor surface. May form explosive mixture with air at intense temperatures. In the event of fire, dangerous flammable gases or vapors may develop.

### 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



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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..

## 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 / m3
Methanol		(67-56-1)
TR MAK	Acceptable maximum concentration (MAK)	200 mbp 260 mg / m3
TR OEL	8 hour specified for reference time measured or calculated time weighted average (TWA):	200 mbp 260 mg / m3

### 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*

Fully fitting safety glasses

*Hand protection*



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Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness : 0,40 mm

Break through time : >480 minute

Splash contact :

Glove material : polychloroprene

Glove thickness : 0,65 mm

Break through time : >240 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*

Flame reterdant antistatic 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	0,05 - 0,125ppm
pH value	2,8 - 4,0 20 °C
Melting point/freezing point	< -15 °C
Freezing point	No information.
Initial boiling point and boiling range	93 - 96 °C 1.013 hPa
Flash point	62 °C
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	7 %(V)
Upper/lower flammability or explosive limits	73 %(V)
Vapour pressure	No information.
Vapour density	No information.
Density	1,09 g/cm <sup>3</sup> 20 °C
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. Section 10.3 to see. Polymerization hazard.

### 10.2 Chemical stability

Sensitive to light. The product is stable under storage at normal ambient temperatures.



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## 10.3 Possibility of hazardous reactions

There is a risk of explosion with nitromethane, performic acid, acids, phenol, nitric acid, hydrogen peroxide, peracetic acid, nitrogen dioxide.

It can react exothermically with bases, nitrides, polymerization initiators, sodium hydroxide, potassium permanganate, furfuryl alcohol, strong oxidizing agents.

Hydrochloric acid creates dangerous gases or vapors in contact with magnesium carbonate.

## 10.4 Conditions to avoid

Exposure to light. Strong heating.

## 10.5 Incompatible materials

Various metals, various alloys, mild steel, Copper

## 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity

LD50: 212.77 mg / kg

Symptoms: If swallowed, there is a risk of perforation of the esophagus and stomach with severe burning of the mouth and throat.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Inhalation may cause edema of the respiratory system. Possible damages :; damage to the respiratory system

Acute toxicity estimate: 6.55 mg / l; 4 hrs; steam

Acute dermal toxicity

Acute toxicity estimate: 638.47 mg / kg

Acute toxicity estimate: 638.51 mg / kg

Skin irritation

Its mixture causes burns. Blistering Cracking, fissure

Eye irritation

The mixture causes serious eye damage. Blindness risk! Lacrimal irritation due to vapors.

CMR effects

Carcinogenicity:

Possible carcinogen.

Mutagenicity:

Evidence of a genetic disorder

Specific Target Organ Toxicity - Single exposure

The mixture causes damage to organs.

Target Organs: Eyes


The mixture may cause respiratory irritation.

Target Organs: Respiratory system

### 11.2 Additional information



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Systemic effects:

Inebriation, Dizziness, Headache, Drowsiness, acidosis, drop in blood pressure, agitation, spasms, Visual disturbances, narcosis, Coma

Handle in accordance with good industrial hygiene and safety practice.

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

### 14.1 UN number



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UN 2209

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## 14.2 UN proper shipping name

FORMALDEHYDE SOLUTION  
with not less than 25%  
formaldehyde

FORMALDEHYDE SOLUTION  
with not less than 25%  
formaldehyde

FORMALDEHYDE SOLUTION  
with not less than 25%  
formaldehyde

FORMALDEHYDE SOLUTION  
with not less than 25%  
formaldehyde

FORMALDEHYDE  
SOLUTION with not less  
than 25% formaldehyde

## 14.3 Transport hazard class(es)

8

8

8

8

8



## 14.4 Packing group

III

III

III

III

III

## 14.5 Environmental hazards

YES

YES

YES

YES

YES

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

H350 May cause cancer.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 Causes an allergic skin reaction.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H370 Causes damage to organs (Eyes).

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date:

Communication information:


Erhan DİLER

11.29.03 & 11 Şubat 2020

05069903686



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