

# 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.060150.00000  
Product Name Isobutyl Methyl Ketone  
Cas no 108-10-1

### 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  
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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)

Flammable liquid category 2  
Acute toxicity category 4 inhalation  
Eye irritation category 2  
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)

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H332 Harmful by inhalation.  
H335 May cause respiratory irritation.

Precautionary Statements (SEA)



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## Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment.

## Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

## SECTION 3: Composition/information on ingredients

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

### 3.1 Maddeler

EC No	203-550-1
Molar mass	100.16 g/mol
Cas No	108-10-1
Concentration	(<= 100 % )

## 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 to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.
<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>	After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

### 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

Laxative : Sodium sulfate (1 tablespoon 250 ml of water..)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

*Suitable extinguishing media*

Foam. Dry extinguishing powder. Carbon dioxide (CO2).

*Unsuitable extinguishing media*

There is no restriction for this item.

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

Flammable. Heavy vapors in the air at the ground surface may occur.. It can create explosive mixtures with air on intense heating. In case of fire hazardous combustion gases or vapors may occur.. Flashback.

Caution.

### 5.3 Advice for firefighters

*Special protective equipment for firefighters*

In case of fire: Wear self-contained breathing apparatus..


### 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



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## 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.

## 6.2 Environmental precautions

Do not discharge into sewer. Risk of explosion.

## 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.

### 7.2 Conditions for safe storage, including any incompatibilities

*Storage conditions*

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and anything that can cause ignition. Protect from light.

### 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

4-Methyl-2-pentanone		(108-10-1)
TR MAK	Acceptable maximum Concentration (MAK)	100 mbp 410 mg / m <sup>3</sup>
TR OEL	8 hour set for reference time measured or calculated time weighted average (TWA):	20 mbp 83 mg / m <sup>3</sup>
	Another time unless stated, 15 for a minute not to be exceeded upper limit of exposure value (STEL):	50 mbp 208 mg / m <sup>3</sup>

### 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*



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Safety glasses

Hand protection

Hand protection

Contact with splash:  
Glove material: butyl rubber  
Glove thickness: 0.7 mm  
Puncture time:> 240 minutes

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

Other skin protection

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapors / aerosols are formed.  
Recommended Filter Type: Filter A (according to DIN 3181),

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Characteristic
Odour threshold	0,1 ppm
pH value	Neutral 20 °C
Melting point/freezing point	-85 °C
Freezing point	No information.
Initial boiling point and boiling range	115 °C
Flash point	14 °C
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	1,2 %(V)
Upper/lower flammability or explosive limits	8 %(V)
Vapour pressure	20 hPa 20 °C
Vapour density	3,46
Density	0,80 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	log Pow: 1,9 - Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	0,59 mPa.s 20 °C
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

Sensitive to light. Sensitive to air.

### 10.3 Possibility of hazardous reactions

Violent reactions with strong oxidizing agents, reducing compounds, bases.



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## 10.4 Conditions to avoid

In case of warming.

## 10.5 Incompatible materials

Copper, rubber, various plastics.

## 10.6 Hazardous decomposition products

Peroxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 2.080 mg / kg

OECD Test Guideline 401

Symptoms: Risk of inhalation by vomiting. Lung failure possible after inhalation of vomit., Gastrointestinal irregularities

Acute inhalation toxicity

LC50 Rat: 11.6 mg / l; 4 hrs; steam

OECD Test Guideline 403

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages :, damage to respiratory system

Acute dermal toxicity

LD50 Rat:> 2,000 mg / kg

OECD Test Guideline 402

Skin irritation

Rabbit

Result: No skin irritation

OECD Test Guideline 404

People

Repeated exposure may cause skin dryness or cracking.

Eye irritation

Rabbit

Result: slight irritation

OECD Test Guideline 405

People

Causes serious eye irritation.

Sensitivity

Sensitivity test (Magnusson and Kligman): Guinea pig

Result: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Specific Target Organ Toxicity - Single exposure

May cause respiratory irritation.

Target Organs: Respiratory system

### 11.2 Additional information

Systemic effects:

Dizziness, Headache, drunkenness, Nausea, narcosis

The following applies to ketones in general: mucosal irritations when vapors / aerosols are generated, cough and dyspnoea after inhalation. Large amounts of absorption lead to CNS depression (narcosis). Repeated skin contact produces a drying effect, with possible second degree burning. After high doses, toxic effects on kidneys and liver cannot be excluded. Inhalation of droplets can cause edema in the respiratory system.


Handle in accordance with good industrial hygiene and safety practice

## SECTION 12: Ecological information

### 12.1 Toxicity



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Toxicity to fish  
static test LC50 Danio rerio (zebrafish):> 179 mg / l; 96 hrs  
Analytical monitoring: yes  
OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates  
static test EC50 Daphnia magna (Water flea):> 200 mg / l; 48 hrs  
Analytical monitoring: yes  
OECD Test Guideline 202

Toxicity to algae (algae)  
IC50 Pseudokirchneriella subcapitata (green algae): 400 mg / l; 96 hrs  
(IUCLID)

Toxicity to bacteria  
static test NOEC Pseudomonas putida: 275 mg / l; 16 hrs  
DIN 38412 TEIL 8  
(maximum permissible toxic concentration)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  
semi-static test NOEC Daphnia (Water flea): 30 - 35 mg / l; 21 g  
Analytical monitoring: yes  
OECD Test Guideline 211

## 12.2 Persistence and degradability

Biodegradation  
83%; 28 g; oxygenated (aerobic)  
OECD Test Guideline 301F  
It is easily soluble in nature by itself.

Theoretical oxygen demand (ThOD)  
2.720 mg / g  
(Source)

Ratio COD / ThBOD  
79%  
(Source)

## 12.3 Bioaccumulative potential

Partition coefficient (n-octanol / water)  
log Pow: 1.9  
OECD Test Guideline 117  
Bioaccumulation is not expected.

## 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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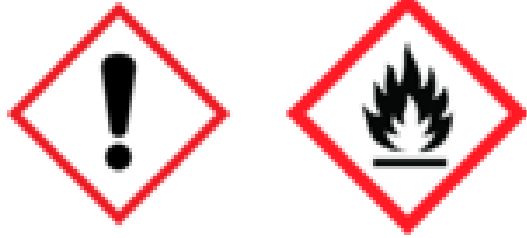
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UN 1245	UN 1245	UN 1245	UN 1245	UN 1245
<b>14.2 UN proper shipping name</b>				
METHYL ISOBUTYL KETONE	METHYL ISOBUTYL KETONE	METHYL ISOBUTYL KETONE	METHYL ISOBUTYL KETONE	METHYL ISOBUTYL KETONE

## 14.3 Transport hazard class(es)

3 3 3 3 3



## 14.4 Packing group

II II II II II

## 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

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H332 Harmful by inhalation.
- H335 May cause respiratory irritation.

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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