

Safety Data Sheet

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

Revision Date: 06.09.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.201788.00000
Product Name Formic Acid %65
Cas no 64-18-6

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

1.2.1. Relevant identified uses

Industrial use. Use as a 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)

Skin corrosion / irritation, Category 1A

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)

H314 Causes severe skin burns and eye damage.

Precautionary Statements (SEA)

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

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 there is thickening and interactions: Get medical attention / care.

SECTION 3: Composition/information on ingredients


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

3.1 Maddeler

EC No 200-579-1
Molar mass 46.03 g/mol
Cas No 64-18-6



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ISO 9001:2015 and ISO 14001:2015

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Concentration 64-18-6

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.. Do not induce vomiting..

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 (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.

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..

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. Avoid generation of dust..

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



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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. Protect from light. 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

Contains no substances with occupational exposure limit values.

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

Hand protection

Full contact

Glove material : polychloropen

Glove thickness :0,65 mm

Break through time : >480minute

Splash contact :

Glove material : natural latex

Glove thickness :0,60 mm

Break through time : >60minute

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

Other skin protection

Acid-resistant protective clothing

Respiratory protection

Required when vapors / aerosols are formed.


Recommended Filter Type: E(93) filter

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties



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Physical state	Liquid
Colour	Transparent
Odour	Stinging
Odour threshold	No information.
pH value	2,2 - 2,5 10 g/l 20 °C
Melting point/freezing point	No information.
Freezing point	No information.
Initial boiling point and boiling range	No information.
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	1,14 - 1,16 g/cm ³ 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.

10.2 Chemical stability

Sensitive to light. Sensitive to air.

10.3 Possibility of hazardous reactions

Risk of explosion or formation of flammable gases or vapors with aluminum.

Risk of explosion with organic nitro compounds, sodium hypochlorite, hydrogen peroxide, furfuryl alcohol.

In contact with alkalines, strong oxidizing agents, sulfuric acid, nonmetal oxides, metal catalysts, phosphorus oxides, nitric acid, nitrates, it creates dangerous gases or vapors.

They can react exothermic with alkaline earth hydroxides, alkali hydroxides, bases, amines.

10.4 Conditions to avoid

Strong heating. Keep away from direct sunlight.

10.5 Incompatible materials

Metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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Acute oral toxicity

LD50 Rat: 730 mg / kg

OECD Test Guideline 401

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

Acute inhalation toxicity

LC50 Rat: 7.85 mg / l; 4 hrs; steam

OECD Test Guideline 403

Symptoms: Burning of mucous membranes, Cough, Shortness of breath, Possible damages: damage to the respiratory system, Pulmonary edema

Skin irritation

Rabbit

Result: Causes burns.

OECD Test Guideline 404

Causes severe burns. Dermatitis, skin burning

Eye irritation

Causes serious eye damage. conjunctivitis Lacrimal irritation due to vapors.

Blindness risk!

11.2 Additional information

After absorption:

acidosis, haemolysis

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 Leuciscus idus (Golden orpere): 46 - 100 mg / l; 96 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 34.2 mg / l; 48 hrs (IUCLID)

Toxicity to algae (algae)

IC50 Desmodesmus subspicatus (green algae): 27 mg / l; 72 hrs (Source)

Toxicity to bacteria

EC10 active waste: 72 mg / l; 13 g (External product safety sheet)

EC50 Pseudomonas putida: 47 mg / l; 17 hrs (IUCLID)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

semi-static test NOEC Daphnia magna (Water flea): > = 100 mg / l; 21 g

Analytical monitoring: yes

OECD Test Guideline 211

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential


No information available.

12.4 Mobility in soil

No information available.



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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

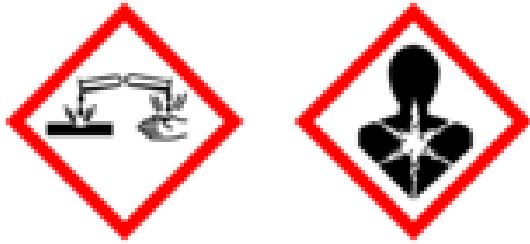
It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 2031	UN 2031	UN 2031	UN 2031	UN 2031
14.2 UN proper shipping name FORMIC ACID	FORMIC ACID	FORMIC ACID	FORMIC ACID	FORMIC ACID

14.3 Transport hazard class(es)

8(3) 8(3) 8(3) 8(3) 8(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

H314 Causes severe skin burns and eye damage.



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Person Who Prepared the Safety Data Sheet:

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