

Safety Data Sheet

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

Revision Date: 17.11.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.930086.00000
Product Name Chloroform %99,9
Cas no 67-66-3

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

1.2.1. Relevant identified uses

Analytical and preparative chromatography, Solvent.

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)

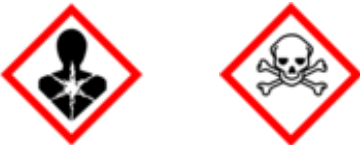
Acute toxicity, Oral, Category 4
Acute toxicity, By inhalation, Category 3
Skin irritation, Category 2
Eye irritation, Category 2
Carcinogenicity, Category 2
Reproductive toxicity, Category 2
Specific Target Organ Toxicity – Single exposure, Category 3, Central nervous system
Specific Target Organ Toxicity – Repeated Exposure, Oral, Category 1, Liver, Kidney

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 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic by inhalation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure. (Liver, Kidney)

Precautionary Statements (SEA)



Group of Companies




ISO 9001:2015



ISO 14001:2015

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Prevention

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.

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

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	200-663-8
Molar mass	119.38 g/mol
Cas No	67-66-3
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>	Give up to two glasses of water. Get medical help 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

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

Carbon oxides. Hydrogen chloride gas. In case of fire it can be formed freely: Hydrogen chloride gas, phosgene. It is not flammable. All-round fire can release dangerous vapours.

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. 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

Chloroform (67-66-3)

EN OEL	8-hour fixed for reference time measured or calculated time weighted average (TWA):	2 mbp 10 mg/m3
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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 : Viton (R)
Glove thickness :0,70 mm
Break through time : >480 minute

Splash contact

Glove material : butyl rubber
Glove thickness :0,70 mm
Break through time : >10 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 . AX filter (EN371)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Sweet
Odour threshold	84,9 - 201,5 mbp
pH value	No information.
Melting point/freezing point	-64 °C
Freezing point	No information.
Initial boiling point and boiling range	60,5 - 61,5 °C 1,013 hPa
Flash point	It doesn't shine.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	210 hPa 20 °C
Vapour density	4,10
Density	1,48 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	8,7 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	It can be distilled without decomposition at normal pressure.

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

Section 10.3 to see.

10.2 Chemical stability



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light sensitive, heat sensitive.

10.3 Possibility of hazardous reactions

There is a risk of explosion with ammonia, amines, nitrogen oxides, bases, oxygen, alkaline amides, organic nitro compounds, strong alkalis, fluorine, peroxy compounds, alkaline earth metals, alkali metals, powdered metals.

Violent reactions possible with phosphines, bis(dimethylamino)dimethyl tin, nonmetallic hydrogen compounds, powdered metals, light metals, ketones, mineral acids, strong oxidizing agents, semi-metallic hydrogen compounds.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Rubber, various plastics.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Oral - Rat - male - 908 mg/kg (Chloroform)
(OECD Testing Guide 401)

Acute inhalation toxicity

Estimated acute toxicity Inhalation - Expert judgment - 4 h - 3.1 mg/l (Chloroform)

Skin irritation

Skin - Rabbit (Chloroform)

Result: Irritating to skin. - 24h
(ECHA)

Drying effect resulting in rough and cracked skin. (Chloroform)

Skin - Rabbit (Chloroform)

Result: slight irritation
(IUCLID)

Serious eye damage/eye irritation

Eyes - Rabbit (Chloroform)

Result: Irritating to eyes.
(ECHA)

Reproductive toxicity

Suspected of causing damage to the unborn child. (Chloroform)

Specific Target Organ Toxicity – Single exposure

May cause drowsiness or dizziness. (Chloroform)

Specific Target Organ Toxicity – Repeated exposure

Oral - Causes damage to organs through prolonged or repeated exposure. - Liver, Kidney

11.2 Additional information

After absorption:

Vomiting, cough, irritant effects, shortness of breath, respiratory arrest, narcosis, dizziness, nausea, agitation, spasms, intoxication, headache, gastrointestinal disorders, ataxia (impaired movement coordination), cardiovascular disorders.

Drying effect resulting in rough and cracked skin.


Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity



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Toxicity to fish

LC50 *Lepomis macrochirus* (Bluegill sunfish): 18 mg / l; 96 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC50 *Daphnia magna* (Water flea): 79 mg / l; 48 hrs (IUCLID)

EC5 *E.sulcatum*: > 6.560 mg / l; 72 hrs (IUCLID) (maximum permissible toxic concentration)

Toxicity to algae (algae)

IC5 *Scenedesmus quadricauda* (green algae): 1.100 mg / l; 8 g (IUCLID) (maximum permissible toxic concentration)

Toxicity to bacteria

EC5 *Pseudomonas putida*: 125 mg / l; 16 hrs (IUCLID) (maximum permissible toxic concentration)

EC50 active waste: 1.010 mg / l; 3 hrs
OECD Test Guideline OECD 209

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 UN 1888	UN 1888	UN 1888	UN 1888	UN 1888
14.2 UN proper shipping name CHLOROFORM	CHLOROFORM	CHLOROFORM	CHLOROFORM	CHLOROFORM
14.3 Transport hazard class(es) 6.1	6.1	6.1	6.1	6.1



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14.4 Packing group

III III III III III

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 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H331 Toxic by inhalation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure. (Liver, Kidney)

Person Who Prepared the Safety Data Sheet:

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