

Safety Data Sheet

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

Revision Date: 20.09.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.401170.00000
Product Name Hexamethylenetetramine
Cas no 100-97-0

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

1.2.1. Relevant identified uses

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)

Flammable solids, Category 2
Skin sensitizer, Subcategory 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)

WARNING

Hazard Statements (SEA)

H228 Flammable solid.
H317 Causes an allergic skin reaction.

Precautionary Statements (SEA)

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P240 Ground/connect container or receiving equipment.
P241 Use explosion-proof electrical/ventilation/igniter/.../ material.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

P302+P352 IF ON SKIN: Wash with plenty of soap and water.


SECTION 3: Composition/information on ingredients

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

3.1 Maddeler



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ISO 9001:2015 and ISO 14001:2015

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EC No	202-905-8
Molar mass	140.19 g/mol
Cas No	100-97-0
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>	Provide fresh air..
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	Rinse carefully and thoroughly with eyewash or water.
<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

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

Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Flammable. Fire may cause evolution of: nitrogen oxides, ammonia, hydrogen cyanide. Heavy-than-air vapors may form on the floor surface. Forms explosive mixtures with air at intense temperatures. In case 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

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

Be careful not to mix into the 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. 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



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7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

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. Keep away from heat and anything that can cause ignition.

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 : 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

Flame retardant antistatic protective chlothing.

Respiratory protection

Required when dusts occur.


Recommended Filter type: P2 type filter

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties



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Physical state	Solid
Colour	White
Odour	Contains ammonia
Odour threshold	Not applicable.
pH value	No information.
Melting point/freezing point	280 °C
Freezing point	No information.
Initial boiling point and boiling range	No information.
Flash point	250 °C
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	< 0,01 hPa 20 °C
Vapour density	No information.
Density	1,33 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	log Pow: -2,18
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

Forms explosive mixtures with air at intense temperatures.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Risk of explosion with halogenated hydrocarbon, nitric acid, acetic anhydride, iodine.

There is a risk of explosion and/or formation of toxic gases with acids.

There is a risk of exothermic reactions with oxidizing agents and peroxy compounds.

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Strong oxidizing agents.

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 Oral - Rat - > 20,000 mg/kg
(ECHA)

Acute dermal toxicity
LD50 Dermal Dermal - Rat - male and female - > 2.000 mg/kg
(OECD Testing Guide 402)

Respiratory or skin sensitization
May cause sensitization in contact with skin.
(OECD Testing Guide 406)

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
static test LC50 - Cyprinodon variegatus - 49.000 mg/l - 96 h
(OECD Testing Guide 203)

12.2 Persistence and degradability

Biodegradability
oxygenated (aerobic) - Exposure time 28 d
Result: 35% - Based on solubility tests, this product is not considered readily soluble.
(OECD Test Guide 301D)

Theoretical oxygen demand
2.054 mg/g
(IUCLID)

BOD/ThBOD ratio
2.02%
(IUCLID)

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 1328	UN 1328	UN 1328	UN 1328	UN 1328
14.2 UN proper shipping name HEXAMETHYLENETETRAMINE	HEXAMETHYLENETETRAMINE	HEXAMETHYLENETETRAMINE	HEXAMETHYLENETETRAMINE	HEXAMETHYLENETETRAMINE

14.3 Transport hazard class(es)



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4.1 4.1 4.1 4.1 4.1



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

H228 Flammable solid.

H317 Causes an allergic skin reaction.

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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