

Safety Data Sheet

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



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Version 2

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

1.1 Product identifier

1.2 Relevant identified uses of the substance or mixture and uses advised against TK.930131

Generic name 1,4-Dioxan (stabilized) Analytic,

REACH No.

CAS No. 123-91-1

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

Relevant identified uses Use as laboratory reagent.

Use of the substance / mixture

Uses advised against

Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. T.C. LTD. ŞTİ.

Street ORGANİZE SAN. BÖL. M

Telephone 0224 243 21 71

E-mail tekkim@tekkim.com.tr

Company Representative Gökhan ÖZKAN

Emergency Telephone Number 0553 209 14 16 - 0553 209 14 18

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Flam. Liq. 2

Eye Irrit. 2

Carc. 2

Specific target organ toxicity (single exposure)

Full text of R-, H- and EUH-phrases: see section 16.

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2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal word

Danger

Hazard Statements

H225 Extremely flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

Precautionary Statements

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.
IF exposed or concerned: Get medical advice/attention.

Storage

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

2.3 Other hazards

SECTION 3: Composition/information on ingredients

Substances

Formula C₄H₈O₂ (Hill)

EC No. 204-661-8

Molar mass 88,11 g/mol

<u>Characteristic</u>	<u>CAS No</u>	<u>EC No</u>	<u>Concentration</u>	<u>Classification</u>
1,4-Dioxan (stabilized) Analytic,	123-91-1	204-661-8	(>= 50 % - <= 100 %)	;6:EUH0196:EUH0664:H2254:H3194:H3354:H351

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

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 casualty to fresh air and keep warm and at rest..
Following skin contact	Subsequently wash off with:.
Following eye contact	In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist..

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Following ingestion Please give up to two glasses of water. Get immediate medical attention..

Most important symptoms and effects, both acute and delayed

Vomiting. Cough. Allergic reactions. Dyspnoea. Dizziness. Headache. Anaesthetic state. Nausea.

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

Water spray jet.

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

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.

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.

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Measures to prevent fire

Advices on general occupational hygiene

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

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7.3 Specific end uses

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Components
Guidelines Value Threshold limits Notes
1,4-Dioxane (123-91-1)
EN MAK Skin description: Can be absorbed through the skin.
Acceptable
maximum
Concentration (MAK)
100 mbp
360 mg / m³
TR OEL 8 hour set
for reference time
measured or
calculated time
weighted average
(TWA):
20 m

8.2 Exposure controls

Appropriate engineering controls

Fresh air (open windows and doors) is necessary..

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Full contact:

Material of gloves: Viton (R)

Glove thickness: 0,70 mm

Puncture time: 480 minutes

Contact with splash:

Glove material: Nitrile rubber

Glove thickness: 0,40 mm

Puncture time: 30 minutes

The protective gloves to be used comply with the specifications of EC directive 89/686 / EEC

Other skin protection

Protective chlothing

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Respiratory protection

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

Environmental exposure controls

See section 7. Additional information about obligations under the common European environment protection regulations:.

SECTION 9: Physical and chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid
Colour	colourless
Odour	Ether
Odour threshold	169,2 mbp
pH value	6 - 8 500 g/l 20 °C
Melting point/freezing point	12 °C
Freezing point	no information
Initial boiling point and boiling range	101.5 ° C at 1,013 hPa
Flash point	11 °C
Evaporation rate	no information
Flammability (solid, gas)	no information °C
Upper/lower flammability or explosive limits	1,7 %(V)
Upper/lower flammability or explosive limits	25,2 %(V)
Vapour pressure	41 hPa at 20 ° C
Vapour density	3,03
Density	1.03 g / cm ³ at 20 ° C
Relative density	no information
Water solubility (g/l)	at 20 ° C soluble °C
Fat solubility (g/l)	no information °C
Partition coefficient: n-octanol/water	log Pow: -0.27 (experimental) (Lit.) Bioaccumulation is not expected.
Auto-ignition temperature	300 °C Metod :DIN 51794.
Decomposition temperature	no information

Viscosity

Kinematic viscosity	1,32 mPa.s at 20 °C
Dynamic viscosity	no information
Explosive properties	Not classified as explosive.

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Oxidising properties None

SECTION 10: Stability and Reactivity

10.1 Reactivity

May form explosive peroxides.. Vapours may form explosive mixtures with air.

10.2 Chemical stability

No exothermic decomposition at temperatures up to 300 °C..

10.3 Possibility of hazardous reactions

Risk of explosion or formation of flammable gases or vapors with:

Fire-enhancing agents, Hydrogen, Raney-nickel

Exothermic reaction with:

Oxidizing agents, Sulfur tri oxide, Acids

There is a risk of explosion with:

Raney-nickel, Hydrogen, Nitric acid, perchlorates, triethylaluminum

10.4 Conditions to avoid

.

10.5 Incompatible materials

. Various metals.

10.6 Hazardous decomposition products

Peroxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 5,150 mg / kg

OECD Test Guideline 401

Acute inhalation toxicity

LC50 Rat: 48.5-54.3 mg / l; 4 h; vapor

OECD Test Guideline 403

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

11.2 Additional information

The effects of the substance become apparent later.

After absorption:

Headache, Dizziness, Nausea, Vomiting

Absorption ... can also cause damage:

Liver, Kidney

Other dangerous properties cannot be excluded.

The substance should be used with special care.

SECTION 12: Ecological information

12.1 Toxicity

2.1 Toxicity

Toxicity to fish

flow-through test LC50 *Oryzias latipes* (Orange-red lethal fish (mosquito

control): 100 mg / l; 504 h

OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates

semi-static test EC50 *Daphnia magna* (Water flea):> 1,000 mg / l; 48 h

OECD Test Guidel

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12.2 Persistence and degradability

Biodegradation
<10%; 29 g
OECD Test Guideline 301F
Not readily soluble in nature.

12.3 Bioaccumulative potential

Partition coefficient (n-octanol / water)
log Pow: -0.27
(experimental)
(Lit.) Bioaccumulation is not expected

12.4 Mobility in soil

No information

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB

12.6 Other adverse effects

Additional ecology information
Forms toxic mixtures in water in spite of dilution measures.
Disposal should be prevented.

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. It was to proceed as their products uncleaned packaging. Atyk Maddeler.

SECTION 14: Transport information

Land transport (ADR/RID)

UN number UN 1165
UN proper shipping name 1,4-Dioxan (stabilized) Analytic,
Transport hazard class(es) 3
Packing group II
Environmental hazards
Special precautions for Yes
Tunnel restriction code D/E

Inland waterway transport (ADN)

Limited quantity (LQ)

Special Provisions

Category

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Air transport (ICAO-TI / IATA-DGR)

UN number UN 1165
UN proper shipping name 1,4-Dioxan (stabilized) Analytic,
Transport hazard class(es) 3
Packing group II
Environmental hazards
Special precautions for No

Sea transport (IMDG)

UN number UN 1165
UN proper shipping name 1,4-Dioxan (stabilized) Analytic,
Transport hazard class(es) 3
Packing group II
Environmental hazards Yes
Special precautions for Yes

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations
Exposure and use restrictions
Dir 92/85 / EEC or more stringent where applicable
national regulations for the protection of pregnancy
Pay attention to work restrictions.
National laws
Storage class 3

Chemical Safety Assessment

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SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text)

H225 Extremely flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.

Prepared the Document

Name Surname : Gökhan ÖZKAN
Contact Info : 0553 209 14 18
Email Address : gokhan@tekkim.com.tr
Certificate Number: 01.52.05