

Safety Data Sheet

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

Revision Date: 28.09.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.911020.00000
Product Name Xylene (mixture of isomers)
Cas no 1330-20-7

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 liquids, Category 3
Acute toxicity, By inhalation, Category 4
Acute toxicity, Dermal, Category 4
Skin irritation, Category 2
Eye irritation, Category 2
Specific Target Organ Toxicity – Single exposure, Category 3, Respiratory system
Specific target organ toxicity - repeated exposure, Inhalation, Category 2, Central nervous system, Liver, Kidney
Aspiration toxicity, Category 1
Long (chronic) aquatic hazard, Category 3

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)

H226 Flammable liquid and vapour.
H304 Fatal if swallowed and enters airways.
H312 + H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

- P301+P310 IF SWALLOWED: Call a POISON CENTER 114 or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.
P331 Do not induce vomiting.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	215-535-7
Molar mass	106.16 g/mol
Cas No	1330-20-7
Concentration	(<= 100 %)

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 casualty to fresh air and keep warm and at rest..
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	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

No information available.

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

Carbon oxides. Flammable. Heavy-than-air vapors may form on the floor surface. May form explosive mixture 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.



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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 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. 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 a dry and well-ventilated place. 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

Xylene (Mixture of Isomers)		(1330-20-7)
TR MAK	Acceptable maximum concentration (MAK)	100 mbp 435 mg / m3
TR OEL	8 hour specified for reference time measured or calculated time weighted average (TWA):	50 mbp 221 mg / m3
	Another time unless specified, 15 for a minute not to be exceeded upper limit of exposure value (STEL):	100 mbp 442 mg / m3

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



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Eye/face protection

Safety glasses

Hand protection

Hand protection

Full contact

Glove material : Viton (R)

Glove thickness :0,70 mm

Break through time : >480 minute

Splash contact

Glove material : Viton (R)

Glove thickness :0,70 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 vapors/aerosols are generated.

Recommended Filter type: filter ABEK

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties


Physical state	Liquid
Colour	Transparent
Odour	Aromatic
Odour threshold	No information.
pH value	No information.
Melting point/freezing point	-25 °C
Freezing point	No information.
Initial boiling point and boiling range	137 - 143 °C
Flash point	25 °C
Evaporation rate	No information.
Flammability (solid, gas)	466 °C
Upper/lower flammability or explosive limits	1 %(V)
Upper/lower flammability or explosive limits	8 %(V)
Vapour pressure	8 hPa 20 °C
Vapour density	No information.
Density	0,86 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	0,2 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	logPOW: 3,12
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	< 0,9 mm2/s 20 °C
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity



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Vapours may form explosive mixtures with air.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

They give exothermic reaction with strong oxidizing agents, acids, sulfur, concentrated sulfuric acid.

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Rubber, various plastics, light metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 3,523 mg/kg

(ECHA)

Symptoms: Gastrointestinal disturbances, risk of inhalation with vomiting, lung failure after inhalation of vomit is possible.

Acute inhalation toxicity

Acute toxicity estimate: 11.23 mg/l; 4 hours; steam

Symptoms: Inhalation may cause edema of the respiratory tract, mucosal irritations, cough, shortness of breath.

Possible damages: damage to respiratory tract

Acute dermal toxicity

Acute toxicity estimate: 1.134 mg/kg

Skin irritation

Drying effect resulting in rough and cracked skin. Mixture causes skin irritation.

Specific Target Organ Toxicity - Single exposure

The mixture may cause respiratory irritation.

Target Organs: Respiratory system

Specific Target Organ Toxicity - Repeated exposure

The mixture may cause damage to organs through prolonged or repeated exposure.

Target Organs: Central nervous system, Liver, Kidney

Aspiration toxicity

Aspiration toxicity, Inhalation lung

11.2 Additional information

Systemic effects:

Headache, drowsiness, dizziness, euphoria, agitation, spasms, narcosis, unconsciousness, intoxication, respiratory paralysis

Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

static test LC50 - Oncorhynchus mykiss (Rainbow trout) - 2.60 mg / l - 96 h

(OECD Test Guideline 203)


Toxicity to algae (algae)

static test EC50 - Pseudokirchneriella subcapitata - 4.36 mg / l - 73 h

(OECD Test Guideline 201)



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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 1307	UN 1307	UN 1307	UN 1307	UN 1307
14.2 UN proper shipping name XYLENES	XYLENES	XYLENES	XYLENES	XYLENES

14.3 Transport hazard class(es)

3 3 3 3 3



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



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Full text of H statements


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H412 Harmful to aquatic life with long lasting effects.

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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