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



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

1.1 Product identifier

TK.911021.00000 Catalog No.

Product Name Toluene Cas no 108-88-3

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. Scientific research and development.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

TEKKİM KİMYA SAN. TİC. LTD. ŞTİ. Name

ORGANIZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA Street

0224 243 21 71 Telephone

E-mail erhan@tekkim.com.tr

Erhan DİLER Company Representative

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 2 Skin irritation, Category 2

Reproductive toxicity, Category 2

Specific Target Organ Toxicity – Single exposure, Category 3, Central nervous system Specific Target Organ Toxicity - Repeated exposure, Category 2, Central nervous system

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)

H225 Highly flammable liquid and vapour.

H304 Fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (SEA)







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Prevention

P201 Read special instructions before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

P273 Avoid release to the environment.

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.

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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
 203-625-9

 Molar mass
 92.14 g/mol

 Cas No
 108-88-3

 Concentration
 (<= 100 %)</td>

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. There may be glare. Be careful.

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





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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.

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. 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

Toluene (108-88-3)

EN MAK Acceptable 750 mg/m3

maximum

concentration (MAK)

EN OEL Skin description: Can be absorbed through

the skin.

100 mbp 384 mg/m3 Another time

unless specified, 15

for a minute not to be exceeded

exposure upper limit

value (STEL):

50 mbp 8 hour set 192 mg/m3

for reference time measured or calculated time weighted average

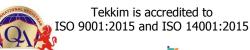
(TWA):

8.2 Exposure controls

Appropriate engineering controls







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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

in full contact

Glove material: Viton (R) Glove thickness: 0.7 mm Absorption time: > 480 minutes

In contact with splash Glove material: Viton (R) Glove thickness: 0.7 mm Absorption time: > 480 minutes

The gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resulting standard EN374.

Other skin protection

Flame reterdant antistatic protective chlothing.

Respiratory protection

Required when vapors/aerosols are generated.

Recommended Filter type: Filter A (according to DIN 3181), for vapors of organic compounds.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties





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Melting point/freezing point

Flammability (solid, gas)

Initial boiling point and boiling range

Upper/lower flammability or explosive limits

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Liquid Colorless Characteristic 0,2 - 68,6 mbp Not applicable.

-95 °C

No information. 110,6 °C 1.013 hPa 4°C 1.013 hPa No information.

535 °C 1,1 %(V) 7,1 %(V)

30,8 hPa 20 °C

3,18

0,87 g/cm3 20 °C No information. 0,58 g/l 20 °C No information.

log Pow: 2,73(experimental)(IUCLID) Bioaccumulation is not expected.

No information. No information.

Upper/lower flammability or explosive limits Vapour pressure Vapour density

Physical state

Odour threshold

Freezing point

Evaporation rate

Flash point

Colour

Odour

pH value

Density Relative density Water solubility (g/l) Fat solubility (q/l)

Partition coefficient: n-octanol/water

Auto-ignition temperature Decomposition temperature

Viscosity

Kinematic viscosity Dynamic viscosity

Explosive properties

Oxidising properties

No information. 0,6 mPa.s 20 °C

Not classified as explosive.

none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

There is a risk of explosion with fragrant sulfuric acid, nitric acid, silver, perchlorates, nitrogen dioxide, nonmetal halides, acetic acid, halogen-halogen compounds, uranium hexafluoride, organic nitro compounds. Violent reactions possible with strong acids, strong oxidizing agents.

10.4 Conditions to avoid

In case of warming.

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







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Acute oral toxicity LD50 Rat: 5,580 mg/kg

Acute inhalation toxicity LC50 Inhalation - Rat - male and female - 4 h - 25.7 mg/l (OECD Testing Guide 403)

Acute dermal toxicity LD50 Dermal - Rabbit - > 5,000 mg/kg (ECHA)

Skin corrosion/irritation Skin - Rabbit Result: irritant - 4 h (ECHA)

Serious eye damage/eye irritation Eyes - Rabbit Result: slight irritation (OECD Testing Guide 405)

Reproductive toxicity

Suspected of causing damage to the unborn child.

Specific Target Organ Toxicity - Single exposure May cause drowsiness or dizziness. - central nervous system

Specific Target Organ Toxicity – Repeated exposure May cause damage to organs through prolonged or repeated exposure. - central nervous system

Aspiration toxicity

Aspiration toxicity, Inhalation may cause pulmonary edema and pneumonitis.

11.2 Additional information

After absorption:

Headache, vomiting, nausea, dizziness, CNS disorders, intoxication, convulsions, circulatory dysfunction, respiratory paralysis, respiratory arrest, unconsciousness, death. Handle in accordance with safety and hygiene rules.

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

flow-through test LC50 - Oncorhynchus kisutch (coho salmon) - 5.5 mg/l - 96 h (ECHA)

Toxicity to daphnia and other aquatic invertebrates EC50 - Ceriodaphnia dubia (dappie) - 3.78 mg/l - 48 h (US-EPA)

Toxicity to bacteria static test EC50 - Bacteria - 84 mg/l - 24 h (ECHA)

12.2 Persistence and degradability

Biodegradability Oxygenated (aerobic) - Exposure time 20 d Result: 86 % - Easily degradable. (IUCLID)

12.3 Bioaccumulative potential







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Bioaccumulation

Leuciscus idus (Golden orpheus) - 3 d - 0.05 mg/l(Toluol)

Bioconcentration factor (BCF): 90

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.

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SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
UN 1294	UN 1294	UN 1294	UN 1294	UN 1294
14.2 UN proper shipping name				
Toluene	Toluene	Toluene	Toluene	Toluene

14.3 Transport hazard class(es)

3 3







14.4 Packing group

Ш Ш II

14.5 Environmental hazards

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







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H361d Suspected of damaging the unborn child.

H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

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H412 Harmful to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date: Erhan DİLER

Communication information: 11.29.03 & 11 Şubat 2020

05069903686



