

SAFETY DATA SHEET

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



EPOFUGA SERTLESTIRICI

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.04.2021	000000274300	Date of first issue: 21.04.2021

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

1.1 Product identifier

Trade name : EPOFUGA SERTLESTIRICI
Product code : 000000000056167745

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

Use of the Substance/Mixture : Product for construction chemicals

1.3 Details of the supplier of the safety data sheet

Company : Sika MBCC Turkey Yapı Kimyasalları
Sanayi ve Ticaret Limited Şirketi
Ataşehir Kuzey, C Kapısı 3E/ 5-12
34746 İstanbul, Turkey
Telephone : +902162178800
Telefax : +902162178800
E-mail address of person responsible for the SDS : mabas-eb@mbcc-group.com

1.4 Emergency telephone

ChemTel: +1-813-248-0585

National Emergency Telephone Number : Acil İlkyardım Merkezi: 112 Ulusal Zehir Danışma Merkezi: 114
İtfaiye: 110

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification T.R. SEA No 28848

Acute toxicity, Category 4

Acute toxicity, Category 4

Skin corrosion/irritation, Category 1B

Serious eye damage/eye irritation, Category 1

Skin sensitization, Category 1

Long-term (chronic) aquatic hazard, Cat-

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egory 3

2.2 Label elements

Labeling T.R. SEA No 28848

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H312 Harmful in contact with skin.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements :

Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P260 Do not breathe dusts or mists.
P273 Avoid release to the environment.
P272 Contaminated work clothing should not be allowed out of the workplace.
P270 Do not eat, drink or smoke when using this product.
P264 Wash face, hands and any exposed skin thoroughly after handling.

Response:

P310 Immediately call a POISON CENTER/ doctor/ .?.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

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2.3 Other hazards

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Amines

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,2'-iminodi(ethylamine)	111-40-0 612-058-00-X	Acute Tox. 4; H302 Acute Tox. 2; H330 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335	> 60 - < 100
triethylenetetramine	112-24-3 203-950-6 612-059-00-5	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	> 30 - < 60

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

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- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Take victim immediately to hospital.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Harmful if swallowed or in contact with skin.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

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5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against : Normal measures for preventive fire protection.

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fire and explosion

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Store protected against freezing.

Advice on common storage : Observe TRGS 509/510 storage rules.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Wear respiratory protection if ventilation is inadequate.
Combination filter for gases/vapours of organic, inorganic,

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acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Protective measures : Do not inhale gases/vapours/aerosols.
Avoid contact with the skin, eyes and clothing.
Handle in accordance with good building materials hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Color	: brownish
Odor	: amine-like
pH	: 10 - 11 (20 °C) Concentration: 20 g/l
boiling temperature	: > 200 °C
Flash point	: > 200 °C
Flammability (solid, gas)	: not highly flammable Method: derived from flash point
Vapor pressure	: 0,5 hPa (20 °C)
Density	: 0,95 - 0,99 g/cm ³ (20 °C)
Bulk density	: Not applicable
Solubility(ies) Water solubility	: insoluble
Autoignition temperature	: No data available
Decomposition temperature	: No decomposition if stored and handled as prescribed/indicated.
Viscosity Viscosity, dynamic	: 150 - 300 mPa.s (25 °C)
Explosive properties	: Not explosive Not explosive
Oxidizing properties	: not fire-propagating

9.2 Other information

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Metal corrosion rate : No corrosive effect on metal.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : See SDS section 7 - Handling and storage.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
strong alkalies
Acids

10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed or in contact with skin.

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration hazard expected.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Components:

2,2'-iminodi(ethylamine):

Toxicity to fish : LC50 (Guppy): 430 mg/l
Exposure time: 96 h
Test Type: semistatic
Analytical monitoring: no
Method: Acute toxicity for fish
GLP: yes
Remarks: Nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 64,6 mg/l
Exposure time: 48 h
Test Type: static
Method: Acute toxicity for daphnia.
GLP: yes
Remarks: Nominal concentration.

EC50 (Daphnia magna): 16 mg/l

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- Exposure time: 48 h
Method: Daphnia test acute
GLP: no
Remarks: Nominal concentration.
- Toxicity to algae/aquatic plants : EC50 (green algae): 1.164 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: no
Method: Algae, Growth Inhibition Test
GLP: yes
Remarks: Nominal concentration.
- Toxicity to microorganisms : No observed effect concentration (nitrifying bacteria): 6 mg/l
Exposure time: 3 h
Test Type: aerobic
Analytical monitoring: no
Method: Oxygen consumption test
GLP: yes
Remarks: Nominal concentration.
- EC10 (bacterium): 0,4 mg/l
Exposure time: 17 h
Test Type: static
Analytical monitoring: no
GLP: yes
Remarks: Nominal concentration.
- Toxicity to fish (Chronic toxicity) : No observed effect concentration: > 10 mg/l
End point: weight of young fish
Exposure time: 28 d
Species: stickleback, threespine
Test Type: semistatic
Analytical monitoring: no
Method: other
GLP: yes
Remarks: Nominal concentration.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No observed effect concentration: 5,6 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna
Test Type: semistatic
Analytical monitoring: no
Method: other
GLP: yes
Remarks: Nominal concentration.
- Toxicity to soil dwelling organisms : Test Type: artificial soil
No observed effect concentration: 500 mg/kg
Exposure time: 56 d
End point: Reproduction rate

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Species: Eisenia foetida
Method: Earthworm Reproduction Test
GLP:yes
Remarks: The details of the toxic effect relate to the nominal concentration.

12.2 Persistence and degradability

Components:

2,2'-iminodi(ethylamine):

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, domestic, non-adapted
Concentration: 10 mg/l
Biodegradation: 87 %
Related to: Test substance
Exposure time: 21 d
Method: Closed bottle test
GLP: no

12.3 Bioaccumulative potential

Components:

2,2'-iminodi(ethylamine):

Bioaccumulation : Species: carp
Exposure time: 42 d
Temperature: 25 °C
Bioconcentration factor (BCF): <= 6,3
Method: Bioaccumulation: Test for the Degree of Bioconcentration in Fish.

Partition coefficient: n-octanol/water : log Pow: -1,58 (20 °C)
pH: > 12
Method: other (calculated)

12.4 Mobility in soil

Components:

2,2'-iminodi(ethylamine):

Distribution among environmental compartments : Adsorption
Medium: water - soil
Kd: > 2.582, log Kd: > 3,4

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

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Additional ecological information : Do not allow to enter soil, waterways or waste water channels. Do not discharge substance/product into sewer system. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADN : UN 2735
ADR : UN 2735
RID : UN 2735
IMDG : UN 2735
IATA : UN 2735

14.2 UN proper shipping name

ADN : AMINES, LIQUID, CORROSIVE, N.O.S. (TRIENTINE)
ADR : AMINES, LIQUID, CORROSIVE, N.O.S. (TRIENTINE)
RID : AMINES, LIQUID, CORROSIVE, N.O.S. (TRIENTINE)
IMDG : AMINES, LIQUID, CORROSIVE, N.O.S. (TRIENTINE)
IATA : AMINES, LIQUID, CORROSIVE, N.O.S.

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(TRIENTINE)

14.3 Transport hazard class(es)

ADN	:	8
ADR	:	8
RID	:	8
IMDG	:	8
IATA	:	8

14.4 Packing group

ADN		
Packing group	:	II
Labels	:	8
ADR		
Packing group	:	II
Hazard Identification Number	:	80
Labels	:	8
Tunnel restriction code	:	(E)

RID		
Packing group	:	II
Hazard Identification Number	:	80
Labels	:	8

IMDG		
Packing group	:	II
Labels	:	8
EmS Code	:	F-A, S-B

IATA (Cargo)		
Packing instruction (cargo aircraft)	:	855
Packing group	:	II
Labels	:	Corrosive

IATA (Passenger)		
Packing instruction (passenger aircraft)	:	851
Packing group	:	II
Labels	:	Corrosive

14.5 Environmental hazards

ADN		
Environmentally hazardous	:	no

ADR		
Environmentally hazardous	:	no

RID		
Environmentally hazardous	:	no

IMDG

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Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Other regulations:

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The ingredients of this product are reported in the following inventories:

DSL :

TSCA :

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H330 : Fatal if inhaled.
H335 : May cause respiratory irritation.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Hazardous to the aquatic environment - chronic hazard
Eye Dam. : Serious eye damage
Skin Corr. : Skin corrosion
Skin Sens. : Skin sensitization
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation;

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Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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TR / EN