

Version 1.1

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

1.1	Product	identifier
	TTOULOU	iuciiiiici

Trade name	:	Sika [®] Injection-451 Part B
REACH Registration Number Substance name		01-2119560598-25-XXXX 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
EC-No.	:	247-063-2

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

Product use	: Concrete protection and repair system, Product is not intend-
	ed for consumer use

1.3 Details of the supplier of the safety data sheet

Company name of supplier	: Sika Hellas ABEE
	15 Protomagias Street
	145 68 Kryoneri / Athens
Telephone	: +30 210 81 60 600
Telefax	: +30 210 81 60 606
E-mail address of person responsible for the SDS	: EHS@gr.sika.com

1.4 Emergency telephone number

Poison Information Center + 30 210 77 93 777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)						
Acute toxicity, Category 4	H302: Harmful if swallowed.					
Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.					
Serious eye damage, Category 1	H318: Causes serious eye damage.					
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.					

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





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Signal word	:	Danger		
Hazard statements	:	H302 H314 H317	Harmful if swallowed. Causes severe skin burns a May cause an allergic skin	
Precautionary statements	:	Prevention: P261 P280	Avoid breathing dust/ fume/ pours/ spray.	-
			Wear protective gloves/ pro eye protection/ face protect	
		Response: P301 + P330 +	P331 IF SWALLOWED: Ri NOT induce vomiting.	nse mouth. Do
		P303 + P361 +		
		P304 + P340 +	P310 IF INHALED: Remov air and keep comfortable fo	or breathing. Im-
		P305 + P351 +	mediately call a POISON C P338 + P310 IF IN EYES: with water for several minut tact lenses, if present and e tinue rinsing. Immediately c CENTER/doctor.	Rinse cautiously tes. Remove con- easy to do. Con-

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Components

Chemical name	CAS-No.	Concentration (% w/w)
	EC-No.	
	Registration number	
2,2,4(or 2,4,4)-	25513-64-8	100
trimethylhexane-1,6-	247-063-2	
diamine	01-2119560598-25-XXXX	



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SECTION 4: First aid measures

4.1 Description of first aid measures			
General advice :	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.		
If inhaled :	Move to fresh air. Consult a physician after significant exposure.		
In case of skin contact :	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty.		
In case of eye contact :	Small amounts splashed into eyes can cause irreversible tis- sue 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. Keep eye wide open while rinsing.		
If swallowed :	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.		
4.2 Most important symptoms and	effects, both acute and delayed		
Symptoms :	Gastrointestinal discomfort Allergic reactions Dermatitis See Section 11 for more detailed information on health effects and symptoms.		
Risks :	Health injuries may be delayed. corrosive effects sensitising effects		
	Harmful if swallowed. 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			
Treatment :	Treat symptomatically.		



Revision Date 12.01.2019 Version 1.1 SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. Unsuitable extinguishing High volume water jet media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire-Burning produces irritant fumes. fighting Hazardous combustion prod- : Carbon oxides ucts Nitrogen oxides (NOx) 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters Further information Standard procedure for chemical fires. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions : Use personal protective equipment. Deny access to unprotected persons. 6.2 Environmental precautions Environmental precautions Do not flush into surface water or sanitary sewer system. 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 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

For personal protection see section 8.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling				
Advice on safe handling	:	Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitisation problems or asth- ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the ap- plication area. Follow standard hygiene measures when handling chemical products		
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.		
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. 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,	inc	luding 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. Store in accord- ance with local regulations.		
Further information on stor- age stability	:	No decomposition if stored and applied as directed.		
7.3 Specific end use(s)				
Specific use(s)	:	Consult most current local Product Data Sheet prior to any use.		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipme	nt	
Eye protection	:	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water Wear eye/face protection.
Hand protection	:	Chemical-resistant, impervious gloves complying with an ap-



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		proved standard must be worn at all times wher chemical products. Reference number EN 374. facturer specifications.	
		Suitable for short time use or protection against Butyl rubber/nitrile rubber gloves (0,4 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.	splashes:
Skin and body protection	:	Protective clothing (e.g. Safety shoes acc. to EN long-sleeved working clothing, long trousers). R and protective boots are additionally recommend and stirring work.	ubber aprons
Respiratory protection	:	No special measures required.	
Environmental exposure of	contr	ols	
General advice	:	Do not flush into surface water or sanitary sewe If the product contaminates rivers and lakes or or respective authorities.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	amine-like
Odour Threshold	:	No data available
рН	:	ca. 11,6 (20 °C) Concentration: 8 g/l
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	236 °C
Flash point	:	ca. 108 °C Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available

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Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	ca. 0,04 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	ca. 0,86 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	365 °C
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	ca. 6 mPa.s (20 °C)
Viscosity, kinematic	:	< 7 mm2/s (40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous re	eactions
Hazardous reactions	: Stable under recommended storage conditions.
10.4 Conditions to avoid	
Conditions to avoid	: No data available
10.5 Incompatible materials	
Materials to avoid	: Acids
	Strong oxidizing agents



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10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Components:

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Acute oral toxicity : LD50 Oral (Rat): 910 mg/kg

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

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.



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SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:

Toxicity to algae	:	EC50 (Scenedesmus capricornutum (fresh water algae)): 29,5 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	LC50: 174 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden orfe)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological infor- : There is no data available for this product. mation

:

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe
	way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional



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	local authority requirements. Avoid dispersal of spilled material and ru soil, waterways, drains and sewers.	noff and contact with
European Waste Catalogue	: 08 04 09* waste adhesives and sealants solvents or other dangerous substances	
Contaminated packaging	: 15 01 10* packaging containing residues by dangerous substances	s of or contaminated

SECTION 14: Transport information

14.1 UN number		
ADR	:	UN 2327
IMDG	:	UN 2327
ΙΑΤΑ	:	UN 2327
14.2 UN proper shipping name		
ADR	:	TRIMETHYLHEXAMETHYLENEDIAMINES
IMDG	:	TRIMETHYLHEXAMETHYLENEDIAMINES
ΙΑΤΑ	:	Trimethylhexamethylenediamines
14.3 Transport hazard class(es)		
ADR	:	8
IMDG	:	8
ΙΑΤΑ	:	8
14.4 Packing group		
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code IMDG		III C7 80 8 (E)
Packing group Labels EmS Code	:	III 8 F-A, S-B
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels IATA (Passenger)	:	
· - ·		

Country GR 000000203101



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Packing instruction (passen- ger aircraft)	:	852		
Packing instruction (LQ) Packing group Labels	:	Y841 III Corrosives		
14.5 Environmental hazards				
ADR Environmentally hazardous	:	no		
IMDG Marine pollutant	:	no		
IATA (Passenger) Environmentally hazardous	:	no		
IATA (Cargo) Environmentally hazardous	:	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				
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable		
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	None of the components are listed (=> 0.1 %).		
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable		
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable		
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable		
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable		
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable		



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 REACH Information:		All substances contained in our Products are - registered by our upstream suppliers, and/or - registered by us, and/or - excluded from the regulation, and/or - exempted from the registration.	
Seveso III: Directive 2012/18/E jor-accident hazards involving		of the European Parliament and of the Council on ngerous substances. Not applicable	on the control of ma-
Volatile organic compounds	:	Law on the incentive tax for volatile organic co (VOCV) no VOC duties	mpounds
		Directive 2010/75/EU of 24 November 2010 or emissions (integrated pollution prevention and Not applicable	

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16: Other information

Full text of other abbreviations				
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road		
CAS	:	Chemical Abstracts Service		
DNEL	:	Derived no-effect level		
EC50	:	Half maximal effective concentration		
GHS	:	Globally Harmonized System		
ΙΑΤΑ	:	International Air Transport Association		
IMDG	:	International Maritime Code for Dangerous Goods		
LD50	:	Median lethal dosis (the amount of a material, given all at		
		once, which causes the death of 50% (one half) of a group of test animals)		
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)		
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978		
OEL	:	Occupational Exposure Limit		
PBT	:	Persistent, bioaccumulative and toxic		
PNEC	:	Predicted no effect concentration		
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency		
SVHC	:	Substances of Very High Concern		
vPvB	:	Very persistent and very bioaccumulative		



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Further information

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

GR / EN