

Helizarin ET 95 FR liq 1050 Page 1(16)

 Substance key: 000000203603
 Revision Date: 21.03.2023

 Version: 2 - 6 / EU
 Date of printing: 03.03.2025

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

1.1. Product identifier

Trade name

Helizarin ET 95 FR liq 1050

Material number: 207353

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

Relevant identified uses of the substance or mixture

Industry sector: Textile processing industry

Type of use: Textile auxiliary

1.3. Details of the supplier of the safety data sheet

Identification of the company

ARCHROMATURKEY Kimya Sanayi

ve Ticaret Ltd. Şti.

Gebze Organize Sanayi Bölgesi İhsan Dede Cad. No:124 Gebze

41480 Kocaeli / TURKEY

Telephone no.: +90 262 672 12 12

Information about the substance/mixture

e-mail: PS.MSDS-Europe@archroma.com

1.4. Emergency telephone number

+49 69 2222 5285, +33 1 7211 0003 (24 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Not a hazardous substance or mixture.

2.2. Label elements

Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Not a hazardous substance or mixture.

Sensitizing components / contains :

5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1) May produce an allergic reaction.



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2.3. Other hazards

No additional hazards are known except those derived from the labelling. Contains no components identified as PBT or vPvB with a content >= 0,1 %

Contains no component identified as having Endocrine disrupting properties with a content >= 0.1~%

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Aqueous dispersion of a styrene acrylic copolymer.

Hazardous ingredients

5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

Concentration : >= 0,0002 - < 0,0015 %

CAS number : 55965-84-9
EC number: 911-418-6
Index Number 613-167-00-5

GHS classification EC

Acute toxicity	Category 3	H301
Acute toxicity	Category 2	H330
Acute toxicity	Category 2	H310
Skin corrosion	Category 1C	H314
Skin sensitisation	Sub-category 1A	H317
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410
Serious eye damage	Category 1	H318

Specific concentration limits:

Skin corrosion	Category 1C	>= 0,6 %
Skin irritation	Category 2	0,06 - < 0,6 %
Eye irritation	Category 2	0,06 - < 0,6 %
Skin sensitisation	Sub-category 1A	>= 0,0015 %
Serious eye damage	Category 1	>= 0,6 %

M-Factor (Acute aquatic toxicity) :	100
M-Factor (Chronic aquatic toxicity) :	100

The text of the H-phrases is shown in section 16.



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove/Take off immediately all contaminated clothing.

Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g. wear personal protection equipment).

After inhalation

If inhaled, remove to fresh air.

Get medical advice/ attention.

After contact with skin

In case of contact, immediately flush skin with plenty of water.

If skin irritation occurs: Get medical advice/ attention.

After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

The possible symptoms known are those derived from the labelling (see section 2).

Hazards

No additional hazards are known except those derived from the labelling.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet

Alcohol-resistant foam

Dry powder

Carbon dioxide (CO2)

Extinguishing media that must not be used for safety reasons

High volume water jet

5.2. Special hazards arising from the substance or mixture



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In case of fire hazardous decomposition products may be produced such as:

Carbon monoxide

Carbon dioxide (CO2)

5.3. Advice for firefighters

Special protective equipment for firefighting

Self-contained breathing apparatus

Full protective suit

Further information

Cool endangered containers with water spray jet.

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

Wear suitable protective equipment.

Ventilate the area.

6.2. Environmental precautions

Collect contaminated fire extinguishing water separately. This must not be discharged into

The product should not be allowed to enter drains, water courses or the soil.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

Additional information

Information regarding Safe handling, see chapter 7.

For personal protection see section 8.

Information regarding Waste Disposal, see chapter 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation.

Observe the usual precautions for handling chemicals.

It cannot be ruled out, that traces of following substances are present.

Formaldehyde



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Hygiene measures

Wash hands before breaks and at the end of workday.

Use protective skin cream before handling the product.

Take off immediately all contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product.

Observe the usual precautions for handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep only in the original container. Suitable materials: PE/PTFE Unsuitable material: iron

Advice on storage compatibility

Avoid storage near incompatibile agents (see section 10).

Do not store or transport together with foodstuffs

Further information on storage conditions

Protect against frost. The product after freezing is no longer usuable

Keep away from heat.

Recommended storage temp 5-30 °C

Storage stability

Storage temperature: 5 - 40 °C

7.3. Specific end use(s)

No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Exposure limit values are not available.

DNEL/DMEL values

5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

EC number: 911-418-6 CAS number: 55965-84-9

Route of exposure	Personnel	Exposure time/Effect	Value	Remarks
Inhalation	Workers	Long-term systemic effects		No hazard identified
Inhalation	Workers	Acute systemic effects		No hazard identified
Inhalation	Workers	Long-term local effects	0,02 mg/m3	Repeated dose toxicity
Inhalation	Workers	Acute local effects	0,04 mg/m3	Repeated dose toxicity
Dermal	Workers	Long-term systemic effects		No hazard identified
Dermal	Workers	Acute systemic effects		No hazard identified



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Dermal	Workers	Long-term local effects		No hazard identified
Inhalation	General population	Long-term systemic effects		No hazard identified
Inhalation	General population	Acute systemic effects		No hazard identified
Inhalation	General population	Long-term local effects	0,02 mg/m3	Repeated dose toxicity
Inhalation	General population	Acute local effects	0,04 mg/m3	Repeated dose toxicity
Dermal	General population	Long-term systemic effects		No hazard identified
Dermal	General population	Acute systemic effects		No hazard identified
Dermal	General population	Long-term local effects		No hazard identified
Oral	General population	Long-term systemic effects	0,09 mg/kg	Repeated dose toxicity
Oral	General population	Acute systemic effects	0,11 mg/kg	Repeated dose toxicity

PNEC values

5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

EC number: 911-418-6 CAS number: 55965-84-9

Environmental compartment	Personnel/Exposure time/Effect	Value
Fresh water		3,39 µg/l
Marine water		3,39 µg/l
Sewage treatment plant		0,23 mg/l
Fresh water sediment		0,027 mg/kg
Marine sediment		0,027 mg/kg
Air	No exposure expected	
Soil		0,01 mg/kg
Secondary Poisoning	Does not bioaccumulate.	

8.2. Exposure controls

Appropriate engineering controls

Local ventilation recommended - mechanical ventilation may be used.

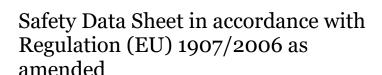
General protective measures

Observe the usual precautions for handling chemicals.

Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : Use respiratory protection in case of insufficient exhaust

ventilation or prolonged exposure





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Hand protection: Long-term exposure

Impervious butyl rubber gloves

Minimum breakthrough time / gloves: 480 min

Minimum thickness / gloves 0,7 mm

For short-term exposure (splash protection):

Nitrile rubber gloves.

Minimum breakthrough time / gloves: 30 min

Minimum thickness / gloves 0,4 mm

These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Eye protection: Depending on the risk, wear sufficient eye protection (safety

glasses with side protection or goggles, and if necessary, face

shield.)

Body protection : working clothes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : Liquid

Colour : milky white

Odour : characteristic
Odour threshold : not available

Melting point : approx. 0 °C

of water

Boiling point : approx. 100 °C

of water

Lower explosion limit :not availableUpper explosive limit :not availableFlash point :> 100 °C

No flash point - Measure made up to the boiling point.

Ignition temperature :not availableSelf-ignition temperature :Not applicable

Thermal decomposition : $> 100 \, ^{\circ}\text{C}$

Stable up to boiling point.

SADT Method: No information available.

pH value : 7,5 - 8 (23 °C)

(as such)



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Viscosity (kinematic): approx. 28 - 67 mm2/s (23 °C)

Method: calculated

Viscosity (dynamic): 30 - 70 mPa.s (23 °C)

Method: Brookf-Visc.RVT Sp.1

Solubility in water : (20 °C)

completely miscible

Octanol/water partition coefficient (log Pow):

This property is not applicable for mixtures.

Vapour pressure : approx. 2,3 kPa (20 °C)

Corresp. to vapour pressure of water

Density: 1.030 g/l (23 °C)

Relative Density: approx. 1.030 (23 °C)

Vapour density relative to air : not available

Particle size : Not applicable

9.2. Other information

Explosive properties: Explosive according transport regulation: Not explosive

Method: Expert judgement

Combustion number: Not applicable

Oxidizing properties: Type of oxidizing effect: The substance or mixture is not

classified as oxidizing.

Method: Expert judgement

Corrosion of metals Not corrosive to metals

Evaporation rate : not available

Minimum ignition energy : not available

Surface tension : not available

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 10.3. "Possibility of hazardous reactions"

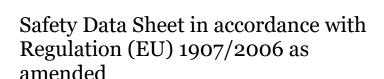
10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. Stable

10.4. Conditions to avoid





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Heat freezing

10.5. Incompatible materials

not known

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information related to the product itself:

Acute oral toxicity: Acute toxicity estimate > 4.992 mg/kg

Method: Calculation method

Acute dermal toxicity: not available Acute inhalation toxicity: not available

Irritant effect on skin: Based on available data, the classification criteria are not met. Irritant effect on eyes: Based on available data, the classification criteria are not met. Sensitization: Based on available data, the classification criteria are not met.

Repeated dose toxicity: not available

Genetic toxicity in vitro: not available Carcinogenicity: not available **Developmental** not available

toxicity/teratogenicity:

Toxicity to not available

reproduction/fertility:

Specific target organ not available toxicity (STOT) - single

exposure:

Specific target organ toxicity (STOT) - repeated

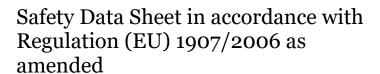
exposure:

Aspiration hazard:

No data available

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

not available





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LD50 200 mg/kg (Rat) Acute oral toxicity:

Method: OECD Test Guideline 423

Acute dermal toxicity: LD50 87,12 mg/kg (Rabbit)

Method: OECD Test Guideline 402

Acute inhalation toxicity: LC50 0,81 mg/l (4 h, Rat)

Method: OECD Test Guideline 403

Irritant effect on skin: Corrosive after 1 to 4 hours of exposure (Rabbit)

Method: OECD Test Guideline 404

Irritant effect on eyes: Irreversible effects on the eye (Rabbit)

Method: OECD

Sensitization: The product is a skin sensitiser, sub-category 1A. (Mouse)

Repeated dose toxicity: Chronic oral toxicty

Route of application: Oral NOAEL: 17,2 mg/kg (Rat)

Method: OECD Test Guideline 453

Repeated Dose Toxicity (subchronic study)

Route of application: Inhalation NOAEL: 0,34 mg/kg (Rat) LOAEL: 1,15 mg/kg (Rat)

Method: OECD Test Guideline 413

Repeated Dose Toxicity (subchronic study)

Route of application: Dermal NOAEL: 0,4 mg/kg (Rabbit)

Method: OECD Test Guideline 411

Genetic toxicity in vivo: **Chromosome Aberration Test**

Mouse (CD1, male and female)

oral (gavage)

Method: OECD Test Guideline 475

negative

Genetic toxicity in vitro: Test type: Bacterial reverse mutation assay

Metabolic activation: with and without

Result: negative

Method: OECD Test Guideline 471

Test type: Mammalian cell gene mutation assay

Metabolic activation: with and without

Result: positive

Method: OECD Test Guideline 476

Developmental Route of application: oral (gavage)

toxicity/teratogenicity: NOAEL: 15 mg/kg (Rat)

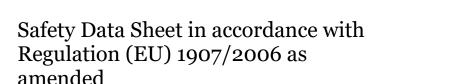
> NOAEL (maternal): 15 mg/kg (Rat) Method: OECD Test Guideline 414

Toxicity to Two-generation study

reproduction/fertility: NOAEL parent: 30 mg/kg (Rat, male and female)

> NOAEL F1: 300 mg/kg (Rat, male and female) NOAEL F2: 300 mg/kg (Rat, male and female)

Method: OECD Test Guideline 416





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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Information related to the product itself:

assessment regarding components with endocrine disrupting properties is ongoing

11.2.2. Other information

Remarks

The mixture consists of ingredient(s) with unknown acute toxicity.

SECTION 12: Ecological information

12.1. Toxicity

Information related to the product itself:

Fish toxicity:

Pish toxicity (chronic):

Daphnia toxicity:

Daphnia toxicity (chronic):

Algae toxicity:

Daphnia toxicity:

Not available

not available

not available

not available

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-

Methyl-2,3-dihydroisothiazol-3-one (3:1)

Fish toxicity: LC50 0,19 mg/l (96 h, Oncorhynchus mykiss (rainbow trout))

Method: EPA OPP 72-1

Fish toxicity (chronic): NOEC $>= 46.4 \mu g/I (35 d, Danio rerio (zebra fish))$

Analytical monitoring : yes

Method: OECD Test Guideline 210

Daphnia toxicity: EC50 0,16 mg/l (48 h, Daphnia magna (Water flea))

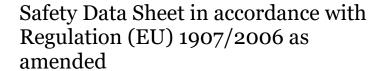
Method: EPA OPP 72-2

Daphnia toxicity (chronic): NOEC 0,1 mg/l (21 d, Daphnia magna (Water flea))

Analytical monitoring: yes

Method: OPP 72-4 (EPA-Guideline): Fish early life stage and

aquatic invertebrates life cycle studies





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Algae toxicity: EC50 (Growth rate) 19,9 µg/l (72 h, Skeletonema costatum

(marine diatom))

Method: OECD Test Guideline 201

Bacteria toxicity: EC50 4,5 mg/l (3 h, activated sludge of a predominantly

domestic sewage)

Method: OECD Test Guideline 209

Toxicity to soil-dwelling

NOEC 8,8 mg/kg (14 d, Eisenia fetida (earthworms))

organisms :

Method: OECD Test Guideline 207

NOEC 1 mg/kg (28 d, soil dwelling microorganisms)

Method: OECD 217

Toxicity to terrestrial plants: NOEC 1.000 mg/l (21 d)

Method: OECD Test Guideline 208

Sediment toxicity: Hyalella azteca (Scud)

Test type: flow-through test

Type of sediment : Artificial sediment

Duration: 28 d

NOEC 3,7 mg/l

12.2. Persistence and degradability

Information related to the product itself:

Physico-chemical

not available

eliminability:

Biodegradability: not available

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-

Methyl-2,3-dihydroisothiazol-3-one (3:1)

Photodegradation: air

The value is given based on a SAR/AAR approach using

OECD Toolbox, DEREK, VEGA QSAR models (Cesar

models), etc.

Biodegradability: 47,6 % (28 d, Carbon dioxide (CO2))

Not readily biodegradable.

Method: OECD Test Guideline 301B

12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation: No information is available on the mixture "as is". If relevant

information is available on the substances listed in Chapter 3,

it is reported here.

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)



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Bioaccumulation: Bioconcentration factor (BCF): 54

Method: OECD Guide-line 305 E

12.4. Mobility in soil

Information related to the product itself:

Transport and distribution between environmental compartments:

No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3,

it is reported here.

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-

Methyl-2,3-dihydroisothiazol-3-one (3:1)

Transport and distribution adsorption (Soil)

between environmental Koc: 7,7

compartments: Method: OECD Test Guideline 106

12.5. Results of PBT and vPvB assessment

Information related to the product itself:

No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

The substance is not identified as a PBT or as a vPvB substance.

12.6. Endocrine disrupting properties

Information related to the product itself:

assessment regarding components with endocrine disrupting properties is ongoing

12.7. Other adverse effects

Information related to the product itself:

Additional ecotoxicological remarks

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

In accordance with regulations for special waste, must be taken to an authorised special waste incineration plant.



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Uncleaned packaging

Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR not restricted
ADN not restricted
RID not restricted
IATA not restricted
IMDG not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

Other regulations

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2. Chemical safety assessment

Chemical Safety Assessments (CSAs) are available for one or more of the component substances contained in this product.

SECTION 16: Other information

See product leaflet

Observe national and local legal requirements



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List of the text of the hazard statements mentioned section 3 (H-phrases) :

H301	Toxic if swallowed.
H310	Fatal 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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Legend

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

AOX Adsorbable organic bound halogens

CAS Chemical Abstracts Service

DMEL Derived Minimal Effect Level (genotoxic substances)

DNEL Derived No Effect Level

EC50 Half maximal effective concentration GHS Globally Harmonized System

IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

LC50 Lethal Concentration 50%

LD50 Lethal Dose 50%

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No Observed Adverse Effect Concentration

NOAEL
NO Observed Adverse Effect Level
NOEC
Non Observed Effect Concentration
OEL
Occupational Exposure Limit
PBT
Persistent, Bioaccumulative, Toxic
PEC
Predicted Environmental Concentration
PNEC
Predicted No Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID International Rule for Transport of Dangerous Substances by Railway

SVHC Substances of Very High Concern

vPvB very Persistent and very Bioaccumulative

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