

Safety Data Sheet in accordance with Regulation (EU) 1907/2006 as amended



Helizarin ET 95 FR liq

1050

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Substance key: 000000203603

Revision Date: 21.03.2023

Version : 2 - 6 / EU

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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 $\geq 0,1$ %

Contains no component identified as having Endocrine disrupting properties with a content $\geq 0,1$ %

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 : $\geq 0,0002$ - $< 0,0015$ %
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	$\geq 0,6$ %
Skin irritation	Category 2	$0,06$ - $< 0,6$ %
Eye irritation	Category 2	$0,06$ - $< 0,6$ %
Skin sensitisation	Sub-category 1A	$\geq 0,0015$ %
Serious eye damage	Category 1	$\geq 0,6$ %

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 drains.
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 incompatible 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 usable
- 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 available
Upper explosive limit :	not available
Flash point :	> 100 °C No flash point - Measure made up to the boiling point.
Ignition temperature :	not available
Self-ignition temperature :	Not applicable
Thermal decomposition :	> 100 °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 mm ² /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 toxicity/teratogenicity :	not available
Toxicity to reproduction/fertility :	not available
Specific target organ toxicity (STOT) - single exposure :	not available
Specific target organ toxicity (STOT) - repeated exposure :	not available
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)

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Acute oral toxicity :	LD50 200 mg/kg (Rat) 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 toxicity 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 toxicity/teratogenicity :	Route of application: oral (gavage) NOAEL: 15 mg/kg (Rat) NOAEL (maternal): 15 mg/kg (Rat) Method : OECD Test Guideline 414
Toxicity to reproduction/fertility :	Two-generation study 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 : not available

Fish toxicity (chronic) : not available

Daphnia toxicity : not available

Daphnia toxicity (chronic) : not available

Algae toxicity : not available

Bacteria toxicity : 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 µg/l (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 organisms :	NOEC 8,8 mg/kg (14 d, Eisenia fetida (earthworms)) 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 eliminability : not available

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 between environmental compartments :

adsorption (Soil)
Koc : 7,7
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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provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Archroma.