Sigma-Aldrich.

#### SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Version 6.3 Revision Date 24.08.2021 Print Date 01.02.2022 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1	<b>Product identifiers</b> Product name	:	Fluoroshield ™
	Product Number Brand REACH No.	:	F6182 Sigma This product is a mixture. REACH Registration Number see section 3.

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

Identified uses : Laboratory chemicals, Manufacture of substances

#### **1.3** Details of the supplier of the safety data sheet

	Company	:	Sigma-Aldrich Chemie GmbH Eschenstrasse 5 D-82024 TAUFKIRCHEN
	Telephone Fax E-mail address		+49 (0)89 6513-1130 +49 (0)89 6513-1161 technischerservice@merckgroup.com
1.4	Emergency telephone		
	Emergency Phone #	:	0800 181 7059 (CHEMTREC Deutschland) +49 (0)696 43508409 (CHEMTREC

weltweit)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008PictogramnoneSignal wordnone

Hazard statement(s)	none
Precautionary statement(s)	none
Supplemental Hazard	none

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Statements

Contains: Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1). May produce an allergic reaction.

#### 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.

Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides.

#### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Component		Classification	Concentration			
Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3- one (3:1)						
CAS-No. EC-No. Index-No.	55965-84-9 911-418-6 613-167-00-5 *	Eye Dam. 1; Acute Tox. 3; Acute Tox. 2; Skin Corr. 1C; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1; H318, H301, H310, H330, H314, H317, H400, H410 Concentration limits: >= 0,6 %: Skin Corr. 1C, H314; 0,06 - < 0,6 %: Skin Irrit. 2, H315; 0,06 - < 0,6 %: Eye Irrit. 2, H319; >= 0,0015 %: Skin Sens. 1A, H317; >= 0,0015 %: Skin Sens. 1A, H317; >= 0,6 %: Eye Dam. 1, H318; M-Factor - Aquatic Acute: 100 - Aquatic Chronic: 100	>= 0,0002 - < 0,0015 %			

\*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air. Consult doctor if feeling unwell.

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#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most).

- **4.2 Most important symptoms and effects, both acute and delayed** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known. Mixture with combustible ingredients. Development of hazardous combustion gases or vapours possible in the event of fire.

#### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## **5.4 Further information** Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6:** Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **6.2 Environmental precautions** Do not let product enter drains.

- **6.3 Methods and materials for containment and cleaning up** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
- **6.4** Reference to other sections For disposal see section 13.

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#### SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Storage conditions** Tightly closed.

Storage stability Recommended storage temperature

2 - 8 °C

Storage class Storage class (TRGS 510): 10: Combustible liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### **Skin protection**

required

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#### **Body Protection**

protective clothing

#### **Respiratory protection**

required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Control of environmental exposure**

Do not let product enter drains.

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#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

-	<b>_</b>		iysical and chemical properties
	a)	Appearance	Form: liquid
	b)	Odor	No data available
	c)	Odor Threshold	No data available
	d)	pН	No data available
	e)	Melting point/freezing point	No data available
	f)	Initial boiling point and boiling range	No data available
	g)	Flash point	No data available
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	No data available
	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapor pressure	No data available
	I)	Vapor density	No data available
	m)	Density	No data available
		Relative density	No data available
	n)	Water solubility	at 20 °C soluble
	o)	Partition coefficient: n-octanol/water	No data available
	p)	Autoignition temperature	No data available
	q)	Decomposition temperature	No data available
	r)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
	s)	Explosive properties	Not classified as explosive.
	t)	Oxidizing properties	none
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9.2 Other safety information No data available

#### SECTION 10: Stability and reactivity

#### **10.1 Reactivity**

No data available

#### **10.2** Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

## **10.3 Possibility of hazardous reactions**

Violent reactions possible with:

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The generally known reaction partners of water.

#### **10.4** Conditions to avoid

no information available

- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

#### SECTION 11: Toxicological information

#### **11.1 Information on toxicological effects**

Mixture

#### Acute toxicity

Oral: No data available Acute toxicity estimate Inhalation - 4 h - > 5 mg/l (Calculation method) Acute toxicity estimate Dermal - > 2.000 mg/kg (Calculation method)

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitization** Mixture may produce an allergic reaction.

Germ cell mutagenicity No data available

#### Carcinogenicity No data available

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure** No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

#### **11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

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#### Components

# Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)

#### **Acute toxicity**

LD50 Oral - Rat - male and female - 66 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - 0,171 mg/l (OECD Test Guideline 403) LD50 Dermal - Rabbit - male - 87,12 mg/kg Remarks: (ECHA)

#### Skin corrosion/irritation

Skin - Rabbit Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Causes serious eye damage. Remarks: (ECHA)

#### Respiratory or skin sensitization

Maximization Test - Guinea pig Result: positive (OECD Test Guideline 406)

#### Germ cell mutagenicity

Test Type: Ames test Test system: Salmonella typhimurium Result: positive Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: positive Test Type: Ames test Test system: Salmonella typhimurium Result: Positive results were obtained in some in vitro tests. Test Type: UDS (Unscheduled DNA synthesis assay) Test system: rat hepatocytes Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Human lymphocytes Result: positive Method: OECD Test Guideline 475 Species: Mouse - male and female - Bone marrow Result: negative Method: OECD Test Guideline 486 Species: Rat - male - Liver cells **Result:** negative Method: US-EPA Species: Mouse - male and female - Bone marrow Result: negative Method: US-EPA Species: Rat - male - Liver cells

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Result: negative Method: OECD Test Guideline 474 Species: Mouse - male and female - Red blood cells (erythrocytes) Result: negative

#### Carcinogenicity

No data available

#### **Reproductive toxicity** No data available

Specific target organ toxicity - single exposure No data available

#### Specific target organ toxicity - repeated exposure

#### **Aspiration hazard**

No data available

#### SECTION 12: Ecological information

#### **12.1 Toxicity**

**Mixture** No data available

- **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

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** No data available

## Components

# Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)

flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 0,19 mg/l - 96 h (US-EPA)
flow-through test LC50 - Daphnia magna (Water flea) - 0,18 mg/l - 48 h (US-EPA)
static test EC50 - activated sludge - 4,5 mg/l - 3 h (OECD Test Guideline 209)

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#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

#### Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information					
<b>14.1 UN number</b> ADR/RID: -	IMDG: -	IATA: -			
<b>14.2UN proper shipping name</b> ADR/RID:ADR/RID:Not dangerous gooIMDG:Not dangerous gooIATA:Not dangerous goo	ds				
14.3 Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -			
14.4 Packaging group ADR/RID: -	IMDG: -	IATA: -			
14.5 Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no			
14.6 Special precautions for user					

#### **Further information**

Not classified as dangerous in the meaning of transport regulations.

#### **SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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#### **SECTION 16: Other information**

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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