

# **SAFETY DATA SHEET**

Version 6.5 Revision Date 17.02.2025 Print Date 18.02.2025

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

#### 1.1 Product identifiers

Product name : Fluorescein sodium salt

Product Number : F6377

Brand : Sigma-Aldrich CAS-No. : 518-47-8

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

Identified uses : Laboratory chemicals, Synthesis of substances

# 1.3 Details of the supplier of the safety data sheet

Company : MilliporeSigma Canada Ltd.

2149 WINSTON PARK DRIVE

OAKVILLE ON L6H 6J8

**CANADA** 

Telephone : +1 905 829-9500 Fax : +1 905 829-9292

1.4 Emergency telephone

Emergency Phone # : +1-703-527-3887 CHEMTREC

(International)

24 Hours/day; 7 Days/week

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

# 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

- none

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

#### 3.1 Substances

Synonyms : Acid Yellow 73

Uranine

No components need to be disclosed according to the applicable regulations.

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

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air.

#### 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: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

# 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

Carbon oxides

Sodium oxides

Combustible.

Vapors are heavier than air and may spread along floors.

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Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. 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: Avoid inhalation of dusts. 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see section 13.

## **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. Dry.

# Storage class

Storage class (TRGS 510): 11: Combustible Solids

## 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**

Contains no substances with occupational exposure limit values.

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# 8.2 Exposure controls

## **Appropriate engineering controls**

Change contaminated clothing. Wash hands after working with substance.

# 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

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

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Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

# **Respiratory protection**

Recommended Filter type: Filter type P1

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.

required when dusts 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.

#### Control of environmental exposure

Do not let product enter drains.

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

# 9.1 Information on basic physical and chemical properties

a) Appearance Form: powder

Color: dark red

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b) Odor No data availablec) Odor Threshold No data available

d) pH 8.36 at 1 at 32 °C (90 °F) - OECD Test Guideline 122

e) Melting point/ range: 313 - 317 °C (595 - 603 °F) at 966.7 hPa point/freezing point - OECD Test Guideline 102

f) Initial boiling point No data available and boiling range

g) Flash point 217.6 °C (423.7 °F) - Pensky-Martens closed cup

h) Evaporation rate No data availablei) Flammability (solid, No data available gas)

j) Upper/lower flammability or explosive limits No data available

k) Vapor pressure No data availablel) Vapor density No data available

m) Density 0.78 g/cm3 at 29.6 °C (85.3 °F) at 699.7 hPa - OECD Test

Guideline 109

Relative density No data available n) Water solubility 600 g/l - soluble

o) Partition coefficient: log Pow: -0.67 - Bioaccumulation is not expected., (Lit.)

n-octanol/water

p) Autoignition > 300 °C (> 572 °F)

temperature

q) Decomposition No data available temperature

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties none

#### 9.2 Other safety information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

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# 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: Strong oxidizing agents

#### 10.4 Conditions to avoid

Avoid moisture. Strong heating.

#### 10.5 Incompatible materials

No data available

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Acute toxicity**

LD50 Oral - Rat - 6,720 mg/kg

Remarks: (RTECS)

Inhalation: No data available Dermal: No data available

No data available

# Skin corrosion/irritation

Remarks: No data available

# Serious eye damage/eye irritation

Remarks: No data available

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative Remarks: (ECHA)

Test Type: Mutagenicity (mammal cell test): micronucleus.

Result: negative

Remarks: (National Toxicology Program)

**Carcinogenicity**No data available

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# 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

Repeated dose toxicity - No data available

RTECS: LM5425000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After uptake of large quantities:

Possible symptoms:

ataxia (impaired locomotor coordination)

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

#### **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish LC50 - Ictalurus catus (catfish) - 2,267 mg/l - 96 h

Toxicity to daphnia and other aquatic

(OECD Test Guideline 202)

invertebrates

Toxicity to algae static test ErC50 - Chlorella vulgaris (Fresh water algae) - 209.24

mg/l - 72 h

(OECD Test Guideline 201)

# 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 7.6 % - Not biodegradable (OECD Test Guideline 301D)

#### 12.3 Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 28 d

- 0.46 mg/l(Disodium 2-(3-oxo-6-oxidoxanthen-9-yl)benzoate)

static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

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#### Bioconcentration factor (BCF): <= 0.27

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

Discharge into the environment must be avoided.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

# **SECTION 14: Transport information**

#### **TDG**

Not regulated as a dangerous good

#### **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

#### **Further information**

Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15: Regulatory information**

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

TSCA : All substances listed as active on the TSCA inventory

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#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

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

#### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. 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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