

# SAFETY DATA SHEET

Version 6.4 Revision Date 09/13/2021 Print Date 06/01/2022

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

#### 1.1 Product identifiers

Product name : Flucythrinate

Product Number : 33496

Brand : Sigma-Aldrich CAS-No. : 70124-77-5

# 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 : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 4), H312

Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

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

# 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger



Hazard statement(s) H301 + H331 H312 H410	Toxic if swallowed or if inhaled. Harmful in contact with skin. Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P261 P264	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

plant.

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

# 3.1 Substances

Synonyms : a-Cyano-3-phenoxybenzyl 4-difluoromethoxy-a-

isopropylphenylacetate

Component	Classification	Concentration
Flucythrinate		
	Flam. Liq. 3; Acute Tox. 3; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1; H226, H301, H332, H400, H410 M-Factor - Aquatic Acute: 10 M-Factor - Aquatic Chronic: 1	<= 100 %

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

# **General advice**

Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

## In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Hydrogen fluoride

Combustible.

# **5.3** Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# 5.4 Further information

No data available

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.



# **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

# Advice on safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

# **Hygiene measures**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

# Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

# Storage stability

Recommended storage temperature 2 - 8 °C

#### Storage class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

# 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.

#### 8.2 Exposure controls

## **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

# **Personal protective equipment**

#### **Eye/face protection**

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

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## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

# 9.1 Information on basic physical and chemical properties

		•	•	•	•	
a)	Appearance		Form: liquid			

Color: colorless

b) Odor No data available

c) Odor Threshold No data available

d) pH No data available

e) Melting No data available point/freezing point

f) Initial boiling point 108 °C 226 °F at 0.47 hPa and boiling range

g) Flash point ()No data available

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

j) Upper/lower No data available flammability or

explosive limits
k) Vapor pressure No data available
l) Vapor density No data available

m) Density 1.189 g/cm3 at 22 °C (72 °F)

Relative density No data available n) Water solubility No data available

o) Partition coefficient: log Pow: 6.2

n-octanol/water



p) Autoignition No data available temperature

q) Decomposition No data available temperature

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

# 9.2 Other safety information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data 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

# **Acute toxicity**

LD50 Oral - Rat - 67 mg/kg

Remarks: (RTECS)

LC50 Inhalation - Rat - 4 h - 4.85 mg/l

Remarks: (RTECS)

LD50 Dermal - Rabbit - > 1,000 mg/kg

Remarks: (RTECS)

#### Skin corrosion/irritation

No data available

# Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitization

No data available

## Germ cell mutagenicity

No data available

# Carcinogenicity



IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

## 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

RTECS: CY1578620

tachycardia, hypertension, nervousness, Tremors, Palpitation, Nausea, Vomiting To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.190 mg/l - 96.0 h

Remarks: (ECOTOX Database)

## 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

Bioaccumulation Cyprinodon variegatus (sheepshead minnow) - 28 d

- 0.27 µg/l(Flucythrinate)

Bioconcentration factor (BCF): < 1,800

#### 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 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

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#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

DOT (US)

UN number: 2810 Class: 6.1 Packing group: III Proper shipping name: Toxic, liquids, organic, n.o.s. (Flucythrinate)

Reportable Quantity (RQ): Poison Inhalation Hazard: No

**IMDG** 

UN number: 2810 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Flucythrinate)

Marine pollutant : yes

**IATA** 

UN number: 2810 Class: 6.1 Packing group: III Proper shipping name: Toxic liquid, organic, n.o.s. (Flucythrinate)

# **SECTION 15: Regulatory information**

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard

## **Massachusetts Right To Know Components**

Flucythrinate CAS-No. Revision Date 70124-77-5 1993-04-24

No components are subject to the Massachusetts Right to Know Act.

#### **Pennsylvania Right To Know Components**

Flucythrinate CAS-No. Revision Date

Sigma-Aldrich - 33496

Page 8 of 9



70124-77-5 1993-04-24

Flucythrinate CAS-No. Revision Date 70124-77-5 1993-04-24

**New Jersey Right To Know Components** 

Flucythrinate CAS-No. Revision Date 70124-77-5 1993-04-24

#### SECTION 16: Other information

#### **Further information**

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