

# **SAFETY DATA SHEET**

Version 6.2 Revision Date 05/07/2021 Print Date 04/05/2022

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

## **1.1 Product identifiers**

Product name	<sup>:</sup> Fluoxetine-d <sub>6</sub>
Product Number	: F-919
Brand	: Cerilliant
Index-No.	: 603-001-00-X

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

Identified uses : L	aboratory chemicals,	, Synthesis of substances
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## 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 Fax	-	+1 314 771-5765 +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)

Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - single exposure (Category 1), Eyes, H370

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

Cerilliant - F-919

Page 1 of 13



Hazard statement(s) H225 H301 + H311 + H331 H370	Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to organs (Eyes).
Precautionary statement(s)	Keep away from heat/ sparks/ open flames/ hot surfaces. No
P210	smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	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.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant
P403 + P233	foam to extinguish. Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

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

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

#### 3.2 Mixtures

Molecular weight : 405.40 g/mol

Component		Classification	Concentration
Methanol			
CAS-No. EC-No. Index-No. Registration number	67-56-1 200-659-6 603-001-00-X 01-2119433307-44- XXXX	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370 Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371;	>= 90 - <= 100 %
Fluoxetine-D6 oxal	ate		
		Acute Tox. 4; Eye Dam. 1; Aquatic Acute 1; Aquatic	< 0.1 %

Cerilliant - F-919

Page 2 of 13



Chronic 1; H302, H318, H400, H410 M-Factor - Aquatic Acute:	
10	

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**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

## If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

## In case of skin contact

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

#### In case of eye contact

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

## If swallowed

After swallowing: fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour).

# **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

#### 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 Pay attention to flashback. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at ambient temperatures. Combustible.

Cerilliant - F-919

Page 3 of 13



## 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

Remove container from danger zone and cool with water. 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. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. 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. Risk of explosion.

**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 carefully 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.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

## Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

## Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

## Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. 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. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

## Storage stability

Recommended storage temperature -20 °C

Storage class (TRGS 510): 3: Flammable liquids

## 7.3 Specific end use(s)

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

Cerilliant - F-919

Millipore SigMa

Page 4 of 13

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Component	CAS-No.	Value	Control	Basis
		10.00	parameters	
Methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit
rechanol	07 50 1	1 00/1	200 ppm	Values (TLV)
	Remarks	Dangor	of cutaneous absc	· · · ·
	Reillarks	STEL		USA. ACGIH Threshold Limit
		SIEL	250 ppm	
		Deve	<i>6</i>	Values (TLV)
			of cutaneous abso	
		TWA	200 ppm	USA. NIOSH Recommended
			260 mg/m3	Exposure Limits
			for dermal absor	
		ST	250 ppm	USA. NIOSH Recommended
			325 mg/m3	Exposure Limits
		Potential	for dermal absor	ption
		TWA	200 ppm	USA. Occupational Exposure
			260 mg/m3	Limits (OSHA) - Table Z-1
			5,	Limits for Air Contaminants
		STEL	250 ppm	USA, OSHA - TABLE Z-1 Limits
		0.22	325 mg/m3	for Air Contaminants -
			020 mg/mo	1910.1000
		Skin nota	ation	
		TWA	200 ppm	USA. OSHA - TABLE Z-1 Limits
			260 mg/m3	for Air Contaminants -
			200 mg/m5	1910.1000
		Skin nota	stion	1910.1000
		С	1,000 ppm	California permissible exposure
				limits for chemical
				contaminants (Title 8, Article
				107)
		Skin		
		PEL	200 ppm	California permissible exposure
			260 mg/m3	limits for chemical
				contaminants (Title 8, Article
				107)
		Skin		
		STEL	250 ppm	California permissible exposure
			325 mg/m3	limits for chemical
				contaminants (Title 8, Article
				107)
		Skin	<u> </u>	- /
		JKIII		

# Ingredients with workplace control parameters

# Biological occupational exposure limits

biological occupational exposure mints					
Component	CAS-No.	Parameters	Value	Biological	Basis
				specimen	

Cerilliant - F-919

Page 5 of 13



Methanol	67-56-1	Methanol	15 mg/l		ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (	As soon as	possible after exp	osure ceases)

## 8.2 Exposure controls

# Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face 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

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.

Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 30 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **Body Protection**

Flame retardant antistatic 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.

# **Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

Cerilliant - F-919

Page 6 of 13



# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

	•	
a)	Appearance	Form: liquid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	64 - 65 °C 147 - 149 °F at 1.013 hPa
g)	Flash point	9.7 °C (49.5 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 36 %(V) Lower explosion limit: 6 %(V)
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
0)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Oth	er safety informatio	n

9.2 Other safety informa No data available

## **SECTION 10: Stability and reactivity**

## **10.1 Reactivity**

Vapors may form explosive mixture with air.

#### **10.2** Chemical stability

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

#### **10.3 Possibility of hazardous reactions** No data available

Cerilliant - F-919

Page 7 of 13



# **10.4 Conditions to avoid**

Warming.

# **10.5** Incompatible materials

Acids, Öxidizing agents, Alkali metals, Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides, Reducing agents, Strong reducing agents, Phosphorus halides

# **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

Inhalation: No data available

Dermal: No data available

No data available

#### 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** Mixture causes damage to organs. - Eyes

#### Specific target organ toxicity - repeated exposure No data available

**Aspiration hazard** No data available

Cerilliant - F-919

Page 8 of 13





# **11.2 Additional Information**

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

Methyl alcohol may be fatal or cause blindness if swallowed., Cannot be made nonpoisonous., Effects due to ingestion may include:, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Dizziness, Weakness, Confusion. Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Central nervous system - Breathing difficulties - Based on Human Evidence

#### Components

## Methanol

#### **Acute toxicity**

Acute toxicity estimate Oral - 100.1 mg/kg (Expert judgment) Symptoms: Nausea, Vomiting Acute toxicity estimate Inhalation - 4 h - 3.1 mg/l (Expert judgment) Symptoms: Irritation symptoms in the respiratory tract. Acute toxicity estimate Dermal - 300.1 mg/kg (Expert judgment)

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation Remarks: (ECHA) Drying-out effect resulting in rough and chapped skin.

## Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation Remarks: (ECHA)

#### **Respiratory or skin sensitization**

Sensitisation test: - Guinea pig Result: negative (OECD Test Guideline 406)

#### Germ cell mutagenicity

Based on available data the classification criteria are not met. Ames test Salmonella typhimurium Result: negative In vitro mammalian cell gene mutation test Chinese hamster lung cells Result: negative OECD Test Guideline 474 Mouse - male and female - Bone marrow Result: negative

#### Carcinogenicity

Did not show carcinogenic effects in animal experiments.

Cerilliant - F-919

Page 9 of 13



#### **Reproductive toxicity**

Based on available data the classification criteria are not met.

## Specific target organ toxicity - single exposure

Causes damage to organs. - Eyes, Central nervous system Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Acute oral toxicity - Nausea, Vomiting

Acute inhalation toxicity - Irritation symptoms in the respiratory tract.

#### Specific target organ toxicity - repeated exposure No data available

NO GALA AVAIIADIE

# **Aspiration hazard**

No data available

## Fluoxetine-D6 oxalate

#### Acute toxicity

LD50 Oral - Rat - 452 mg/kg Inhalation: No data available Dermal: No data available No data available

## Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Severe eye irritation

#### **Respiratory or skin sensitization** No data available

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

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

## Mixture

No data available

Cerilliant - F-919

Page 10 of 13





#### **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

 $\mathsf{PBT/vPvB}$  assessment not available as chemical safety assessment not required/not conducted

#### **12.6 Other adverse effects** No data available

# Components

## Methanol

Toxicity to fish	flow-through test LC50 - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - 18,260 mg/l - 96 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - ca. 22,000.0 mg/l - 96 h (OECD Test Guideline 201)
Toxicity to bacteria	static test IC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)

## Fluoxetine-D6 oxalate

No data available

# 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. 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**

## DOT (US)

UN number: 1230 Class: 3 Packing group: II Proper shipping name: MethanolSOLUTION

Reportable Quantity (RQ): Poison Inhalation Hazard: No

Cerilliant - F-919

Page 11 of 13



## ΙΑΤΑ

UN number: 1230 Class: 3 (6.1) Packing group: II Proper shipping name: MethanolSOLUTION

## SECTION 15: Regulatory information

## SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

#### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components		
Methanol	CAS-No. 67-56-1	Revision Date 2007-07-01
hethanoi	07 50 1	2007 07 01

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

<b>Pennsylvania Right To Know Components</b>	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01
New Jersey Right To Know Components	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

Cerilliant - F-919

Page 12 of 13



# **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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Version: 6.2

Revision Date: 05/07/2021

Print Date: 04/05/2022

Cerilliant - F-919

Page 13 of 13

