ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1
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SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	:	Oxyfluorfen Solution in Acetonitrile
Product Number	:	BWY400502
Brand	:	aladdin
CAS-No.	:	42874-03-3(Acetonitrile)

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

Identified uses	:	Laboratory chemicals,Manufacture of substances.

1.3 Company

Company	:	ALADDIN SCIENTIFIC CORPORATION
Address	:	14078 Meridian Parkway,
Riverside, CA. 92518		
Telephone	:	+1 (833) 552-7181
Fax	:	no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA	: 1-800-424-9300
CHEMTREC®, Outside the USA	:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Physical hazard

Flammable liquid Class 2

Health hazard

Acute toxicity (oral) grade 5

Acute toxicity (percutaneous) level 3

Serious damage/irritation to eyes Category 2A

Germ cell sensitivity level 2

Specific target organ toxicity

-Single contact [Level 1]

Respiratory system Central nervous system

Specific target organ toxicity

-Single contact [Level 2]

liver

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H225	Highly Flammable liquid and vapor
H303	May be harmful if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H370	Causes damage to organs
H373	Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P202	Do not handle until all safety precautions have been read and understood.
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 hands [and ...] 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/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/...

P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use ... to extinguish.
P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing.Call a POISON CENTER or doctor. if you feel unwell.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms	: no data available
Formula	: no data available
Molecular weight	: no data available

Component	Classification	Concentration
Acetonitrile		
CAS-No. : 75-05-8 EC-No. : 200-835-2	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302, H332, H312, H319	
Clofentezine		
CAS-No. : 74115-24-5 EC-No. : 277-728-2	Acute toxicity category 4; long-term aquatic hazard Harm category 1; H312, H410 M-factor-Aquatic Acute: 1,000	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

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

In case of skin contact

Remove/take off all contaminated clothing immediately. Wash gently with plenty of soap and water. Call the detoxification center/doctor.

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

no data available

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.
Unsuitable extinguishing media
no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

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. Evacuate the danger area, observe emergency procedures, consult an expert.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material. 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

Technical measures: Treat in a well-ventilated place. Wear suitable protective equipment. Prevent smoke generation. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take measures to prevent static electricity from accumulating. Use explosion-proof equipment. Wash hands and face thoroughly after treatment. Note: If possible, use a closed system. If vapor or aerosol is generated, use ventilation and local exhaust. Handling precautions: Avoid contact with all parts!

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark, well-ventilated place. The storage place must be locked. Store away from incompatible materials such as oxidizers. Storage temperature -20℃

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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 EN166(EU).

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. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., 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 fullface particle respirator type N100 (US) or type P3 (EN 143) 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

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	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) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	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

Sparks, open flames, static electricity

10.5 Incompatible materials

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Oxidizing agent, acid, alkali, reducing agent, alkali metal

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, etc.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
ihl-rat LC50:7551 ppm/8H

orl-mus LD50:269 mg/kg

orl-rat LD50:2460 mg/kg

skn-rbt LD50:980 mg/kg

Skin corrosion/irritation
skn-rbt 500 mg open MLD
Serious eye damage/eye irritation
eye-rbt 20 mg open SEV
Respiratory or skin sensitisation
no data available
Germ cell mutagenicity
sce-ham-ovr 5 g/L sln-dmg-ihl 131 ppm sln-smc 47600 ppm
Carcinogenicity
ihl-rat TCLo:400 ppm/6H/2Y-
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
Additional Information

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicity:Fish: 96h LC50:>100 mg/L (Oryzias latipes)Crustaceans: 48h EC50:>1000 mg/L (Daphnia magna)Algae: 72h EC50:>700 mg/L (Selenastrum capricornutum)

12.2 Persistence and degradability

65 % (NH3) (by BOD) , 84 % (by TOC) , 88 % (by GC)

12.3 Bioaccumulative potential

3

12.4 Mobility in soil

Mobility in soil Log Pow:: -0.34 Soil absorption coefficient (Koc): 120 Henry's law constant(PaM 3 /mol):

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 1648	Packing group: II	Class: 3
Proper shipping name: Acetonitrile	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data available

Environmental Hazards: no data available

IMDG

UN number: 1648	Packing group: II	EMS-No: no data available
Proper shipping name: Acetonitrile		

IATA

UN number: 1648	Packing group: II	Class: 3
Proper shipping name: Acetonitrile		

SECTION 15: Regulatory information

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

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SECTION 16: Other information

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