

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
Printdate 24 Aug 2022

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Fluridone

### 1.1. Catalog No.:

681563

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH  
Am Wieseneck 7

04451 Cunnersdorf  
Deutschland

Tel. +49 34291 3372-36  
Fax. +49 34291 3372-39  
contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture  
Classification according to Regulation (EC) No 1272/2008  
Acute toxicity, Dermal (Category 3), H311  
Long-term (chronic) aquatic hazard (Category 2), H411  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2. Label elements

#### 2.2.1. Pictogram



#### 2.2.2.

2.2 Label elements  
Labelling according Regulation (EC) No 1272/2008  
Pictogram  
Signal word Danger

Hazard statement(s)  
H311 Toxic in contact with skin.  
H411 Toxic to aquatic life with long lasting effects.  
Precautionary statement(s)  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing.  
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/  
doctor if you feel unwell.  
Supplemental Hazard  
Statements  
none  
Reduced Labeling (<= 125 ml)  
Pictogram  
Signal word Danger  
Hazard statement(s)  
H311 Toxic in contact with skin.  
Precautionary statement(s)  
P280 Wear protective gloves/ protective clothing.  
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/  
doctor if you feel unwell.  
Supplemental Hazard  
Statements  
none  
2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances  
Formula : C<sub>19</sub>H<sub>14</sub>F<sub>3</sub>NO  
Molecular weight : 329,32 g/mol  
CAS-No. : 59756-60-4  
EC-No. : 261-916-6  
Component 1-Methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4-pyridone  
CAS-No.59756-60-4  
EC-No.261-916-6  
Classification Acute Tox. 3; Aquatic Chronic 2; H311, H411  
Concentration <= 100 %  
For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 3.1.1. Formula

C<sub>19</sub>H<sub>14</sub>F<sub>3</sub>NO

#### 3.1.2. Molecular Weight (g/mol)

329.32

### 3.1.3. CAS-No.

59756-60-4

## 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. 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

## 5. FIRE-FIGHTING 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

#### Hydrogen fluoride

#### Nitrogen oxides (NOx)

#### 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

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

### 7.3 Specific end use(s)

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Ingredients with workplace control parameters

### 8.2 Exposure controls

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).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves 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.

Full kontakt

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

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

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 fullface particle respirator type N99 (US) or type P2 (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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) Appearance Form: solid  
Color: colorless
  - b) Odor No data available
  - c) Odor 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 No data available  
flammability or  
explosive limits
  - k) Vapor pressure No data available
  - l) Vapor density No data available
  - m) Density No data available  
Relative density No data available
  - n) Water solubility No data available
  - o) Partition coefficient:  
n-octanol/water  
log Pow: 3,4
  - 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 No data available
  - t) Oxidizing properties No data available
- ### 9.2 Other safety information
- No data available

## 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

## 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects  
Acute toxicity  
LD50 Oral - Rat > 10.000 mg/kg  
Inhalation: No data available  
Acute toxicity estimate Dermal - 300 mg/kg  
(Calculation method)  
Dermal: 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  
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  
RTECS: UU7786500  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity  
Toxicity to fish mortality LOEC - Stizostedion vitreum - 1,2 mg/l - 96,0 h  
LC50 - Oncorhynchus mykiss (rainbow trout) 7,7 mg/l 96,0 h  
mortality NOEC - Stizostedion vitreum - 0,78 mg/l 96,0 h  
Toxicity to daphnia  
and other aquatic  
invertebrates  
EC50 - Daphnia magna (Water flea) 3,6 mg/l 48 h  
12.2 Persistence and degradability  
No data available  
12.3 Bioaccumulative potential  
Bioaccumulation Oncorhynchus mykiss (rainbow trout) 6 Months  
56,5 ug/l(1-Methyl-3-phenyl 5-[3-(trifluoromethyl)phenyl]-4  
pyridone)

Bioconcentration factor (BCF): 23,39

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

Toxic to aquatic life with long lasting effects

### 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.

### 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3077 IMDG: 3077 IATA: 3077

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-Methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4-pyridone)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-Methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4-pyridone)

IATA: Environmentally hazardous substance, solid, n.o.s. (1-Methyl-3-phenyl-5-[3-(trifluoromethyl)phenyl]-4-pyridone)

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids. Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

### 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.

National legislation  
Seveso III: Directive 2012/18/EU of the European  
Parliament and of the Council on the control of  
major-accident hazards involving dangerous  
substances.  
: ENVIRONMENTAL HAZARDS  
15.2 Chemical Safety Assessment  
For this product a chemical safety assessment was not carried out

## 16. OTHER 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. For lab use only!