# 1. PRODUCT

## **1.1 Product identifiers**

Name: Fluroxypyr

CAS-No.: 69377-81-7

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

Identified uses : Laboratory chemicals, Manufacture of substances

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Acute aquatic toxicity (Category 3), H402

Chronic aquatic toxicity (Category 3), H412

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

### 2.2 GHS Label elements, including precautionary statements

| Pictogram                  | N/A  |
|----------------------------|--|
| Signal word                | none   |
| Hazard statement(s)        | H412 Harmful to aquatic life with long lasting effects.  |
| Precautionary statement(s) | P273 Avoid release to the environment.<br>P501 Dispose of contents/ container to an approved waste disposal plant. |

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

No data available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

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

# 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   |  |
| f 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. Consult a physician.   |  |
| In case of eye contact   |  |
| Flush eyes with water as a precaution.   |  |
| If swallowed   |  |

#### 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

### 4.2 Indication of any immediate medical attention and special treatment needed

no data available

#### **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 chloride gas, Hydrogen fluoride

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

no data available

## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. 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

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

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

#### 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

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 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<br>protection | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).   |
|------------------------|---|
| Skin<br>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. Splash contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 113 min Material tested:Butoject® (KCL 897 / Aldrich Z677647, 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 CE 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<br>Protection     | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.   |
| Respiratory protection | Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).   |
|                        | 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

| Appearance                                   | Form: solid                  |
|--|------------------------------|
| Odour  | no data available            |
| Odour Threshold                              | no data available            |
| рН   | no data available            |
| Melting point/freezing point                 | no data available            |
| Initial boiling point and boiling range      | no data available            |
| Flash point                                  | no data available            |
| Evaporation rate                             | no data available            |
| Flammability (solid, gas)                    | no data available            |
| Upper/lower flammability or explosive limits | no data available            |
| Vapour pressure                              | no data available            |
| Vapour density                               | no data available            |
| Relative density                             | 1.090 g/cm3 at 20 °C (68 °F) |
| Water solubility                             | slightly soluble             |
| Partition coefficient: n-octanol/water       | log Pow: 1.2                 |
| Auto-ignition temperature                    | no data available            |
| Decomposition temperature                    | no data available            |
| Viscosity                                    | no data available            |
| Explosive properties                         | no data available            |

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**

Other decomposition products - no data available

In the event of fire: see section 5

# **11. TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

| Acute toxicity   | $\mathbf{O}^{\mathbf{Y}}$  |
|--|--|
| LD50 Oral - rat - 2,405 mg/kg<br>Inhalation: no data available<br>LD50 Dermal - rabbit - > 5,000 mg/kg<br>no data available  |  |
| Skin corrosion/irritation  |  |
| no data available  |  |
| Serious eye damage/eye irritation  |  |
| no data available  | 0  |
| Respiratory or skin sensitisation  |  |
| no data available  | $\sim$   |
| Germ cell mutagenicity   |  |
| no data available  |  |
| Carcinogenicity  |  |
| IARC: No component of this product present at levels greater than<br>probable, possible or confirmed human carcinogen by IARC.<br>ACGIH: No component of this product present at levels greater that<br>carcinogen or potential carcinogen by ACGIH.<br>NTP: No component of this product present at levels greater than of<br>known or anticipated carcinogen by NTP.<br>OSHA: No component of this product present at levels greater than<br>carcinogen or potential carcinogen by OSHA. | n or equal to 0.1% is identified as a provide the first of the first o |
| Reproductive toxicity  |  |
| no data available<br>no data available   |  |
| Specific target organ toxicity -single exposure  |  |
| no data available  |  |
| Specific target organ toxicity -repeated exposure  |  |

# Aspiration hazard

no data available

Additional Information RTECS: AF2500000

# **12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

| Toxicity to fish                                    | LC50 - Lepomis macrochirus (Bluegill) - 14.3 mg/l - 96.0 h            |
|---|---|
| Toxicity to daphnia and other aquatic invertebrates | EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h                 |
| Toxicity to algae                                   | EC50 - Pseudokirchneriella subcapitata (green algae) - 2.4 mg/l - 5 d |
| Toxicity to bacteria                                | No data available   |

## 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

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

## 12.6 Other adverse effects

Harmful to aquatic life with long lasting effects.

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

no data available

# **13. DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

| Product  |  |
|--|--|
| Offer surplus and non-recyclable solutions to a licensed disposal company. |  |
| Contaminated packaging   |  |
| Dispose of as unused product.  |  |

# **14. TRANSPORT INFORMATION**

# DOT (US)

Not dangerous goods

# IMDG

Not dangerous goods

# ΙΑΤΑ

Not dangerous goods

# SARA 302 Components

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

## SARA 313 Components

SARA 313: 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

No SARA Hazards

## Massachusetts Right To Know Components

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

#### Pennsylvania Right To Know Components

| Component  | CAS-No.    | Revision Date |
|------------|------------|---------------|
| Fluroxypyr | 69377-81-7 |               |

# New Jersey Right To Know Components

| Component  | CAS-No.    | Revision Date |
|------------|------------|---------------|
| Fluroxypyr | 69377-81-7 |               |

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other

reproductive harm.

# **16. OTHER INFORMATION**

## Full text of H-Statements referred to under sections 2 and 3.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

## **HMIS Rating**

Health hazard: 1

Chronic Health Hazard:

Flammability: 0

Physical Hazard 0

#### **NFPA Rating**

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

