

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Revision Date: 11 September 2022

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Flufenacet Technical

CAS No. 142459-58-3

EC No.

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

Recommended Use Herbicide

1.3. Details of the supplier of the safety data sheet

Supplier Address Cropnosys India Pvt Ltd

Plot No. 5303, GIDC Estate, Phase IV, District: Valsad

Vapi-396195, Gujarat, INDIA

Tel: +91 22 652 26797

For further information, please contact

Email addressinfo@cropnosysindia.comWebsitewww.cropnosysindia.com

1.4. Emergency telephone number

Emergency Telephone +91 22 652 26797

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Acute toxicity, oral Category 4 - (H302)
Skin sensitization Category 2 - (H317)
Specific target organ toxicity (rep. exp.)
Acute aquatic toxicity Category 1 - (H400)
Chronic aquatic toxicity Category 1 - (H410)

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

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Signal Word Warning

Hazard Statements H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H373 - May cause damage to organs through prolonged or repeated

exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/ eye protection/ face

protection

P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
Flufenacet Technical*	142459-58-3		Acute Tox. 4 (H302) Skin Sensitization. 2 (H317) Spec. Target Organ Tox. 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	98.0%

^{*}Synonym: N-(4-Fluorophenyl)-N-isopropyl-2-[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yloxy]acetamide

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

^{*}Molecular Formula: C14H13F4N3O2S

Revision Date: 11 September 2022

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.

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

Skin Contact Wash off with soap and plenty of water. Consult a physician.

Eye contact Flush eyes with water as a precaution.

Ingestion 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

Symptoms Described in labelling (see section 2.2.) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment There is no specific antidote. Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. 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 firefighting if necessary.

5.4. Further information

No data available

Section 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. Evacuate personnel to safe areas. Avoid breathing dust.

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.

Revision Date: 11 September 2022

6.3. Methods and material 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

Refer to disposal considerations listed in section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. 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

Store in cool place. 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.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters.

8.2. Exposure controls

Engineering measures Handle in accordance to general industrial hygiene and safety

practice. Wash hands before breaks and at the end of workday.

Personal protective equipment Wash hands and face after working with the product.

Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle

respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government

standards such as NIOSH (US) or CEN (EU).

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.

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 and body 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 EU

Directive 89/686/EEC and the standard EN 374 derived from it.

Environment exposure controls 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

Appearance Form: powder Colour: beige

odourless

Odour

Odour Threshold No data available No data available рН

Melting point/freezing point 119°C

Boiling point/range No data available No data available Flash point **Evaportation rate** No data available Flammability (solid, gas) No data available No data available Lower explosion limit No data available Upper explosion limit Vapour pressure No data available Vapour density No data available Relative density No data available

Water solubility insoluble Partition Coefficient n-octanol log Pow: 3.20

/water

Autoignition temperature No data available No data available **Decomposition temperature** Viscosity No data available No data available **Explosive properties** Oxidizing properties No data available

9.2. Other information

Bulk Density 625g/l

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No information available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

No information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition

Hazardous decomposition products formed under fire conditions - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen fluoride

Other decomposition products - No data available

In the event of fire - refer section 5

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity LD50 Oral - Rat -> 589 mg/kg (Flufenacet)

LC50 Inhalation - Rat - 4 h -> 3,700 ppm (Flufenacet) LC50 Dermal - Rat -> 2,000 mg/kg (Flufenacet)

Skin corrosion/irritation Skin - Rabbit (Flufenacet)

Result: No skin irritation

Serious eye damage/eye irritation Eyes - Rabbit (Flufenacet)

Result: No eye irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

No data available

No data available

Carcinogenicity IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

Reproductive toxicity Damage to fetus cannot be excluded (Fluazinam)

Suspected human reproductive toxicant (Fluazinam)

Specific target organ toxicity

Single exposure
 Repeated exposure
 Aspiration hazard
 Additional information
 No data available
 No data available
 RTECS: AC2845000

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 5.8 mg/l - 96.0 h

(Flufenacet)

Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 0.085 mg/l -

72.0 h (Flufenacet)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available (Flufenacet)

12.5. PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Very toxic to aquatic life with long lasting effects.

Avoid release to the environment.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal

company. Dissolve or mix the material with a combustive solvent and

burn in chemical scrubber.

Contaminated packaging Dispose of as unused product.

Section 14: TRANSPORT CONSIDERATIONS

ADR/RID/ADN

14.1 UN number 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3 Transport hazard class(es) 914.4 Packing group III

14.5 Environmental Hazards Environmentally hazardous

IMDG

14.1 UN number 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3 Transport hazard class(es) 914.4 Packing group III

14.5 Environmental Hazards Marine Pollutant

IATA

14.1 UN number 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3 Transport hazard class(es) 914.4 Packing group III

14.5 Environmental Hazards Environmentally hazardous

14.6 Special precautions for user

EHS-Mark requires (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with Dangerous Goods > 5L for liquids or > 5kg for solids.

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Labeling according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Hazard pictograms







Signal word Warning

Hazard Statements H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H373 - May cause damage to organs through prolonged or repeated

exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/ eye protection/ face

protection

P501 - Dispose of contents/ container to an approved waste disposal plant

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

Revision Date: 11 September 2022

Section 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

Further information

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

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Revision Note *** -Change from previous version.

The material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 [CLP/GUH]

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

