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Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 31 May 2023

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

1.1. Product name:

Clodinafop-propargyl

1.1. Catalog No.:

681371

1.2. Relevant identified uses of the substance or mixture

Identified uses: Laboratory chemical
R&D

1.3. Uses advised against:

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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, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Skin sensitisation (Category 1), H317
Specific target organ toxicity - repeated exposure (Category 2), H373
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

2.2. Label elements

2.2.1. Pictogram

2.2.2.

Label elements

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Labelling according Regulation (EC) No 1272/2008
Signal word: Warning
Hazard statement(s)
H302 + H332 Harmful if swallowed or if inhaled.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P273 Avoid release to the environment.
P280 Wear protective gloves.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
Supplemental Hazard Statements: none
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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1.1. Formula

C17H13ClFNO4

3.1.2. Molecular Weight (g/mol)

349.74

3.1.3. CAS-No.

105512-06-9

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4. FIRST AID MEASURES

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: 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: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

SECTION 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 firefighting if necessary.
5.4 Further information: No data available

6. ACCIDENTAL RELEASE MEASURES

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. 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.

7. HANDLING AND STORAGE

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.
7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Components with workplace 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: Safety glasses with side-shields conforming to EN166 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.
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 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).
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

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
a) Appearance Form: crystalline Colour: beige
b) Odour: No data available
c) Odour Threshold: No data available
d) pH: 4,1 at 25 °C
e) Melting point/freezing point: 48,2 - 57,1 °C
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: 1,360 g/cm3 at 20 °C
n) Water solubility: No data available
o) Partition coefficient: n-octanol/water log Pow: 3,9 at 25 °C
p) Auto-ignition 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
9.2 Other safety information: No data available

10. STABILITY AND REACTIVITY

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: No data available
10.5 Incompatible materials: Strong oxidizing agents
10.6 Hazardous decomposition products: 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: see section 5

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11. TOXICOLOGICAL INFORMATION

SECTION 11: Toxicological information
11.1 Information on toxicological effects
Acute toxicity:
LD50 Oral - Rat - male - 1.392 mg/kg Remarks: (HSDB)
LC50 Inhalation - Rat - 4 h - 2.325 mg/m3 Remarks: (HSDB)
LD50 Dermal - Rabbit - > 2.000 mg/kg Remarks: (HSDB)
Skin corrosion/irritation Skin:
- Rabbit Result: No skin irritation
Serious eye damage/eye irritation:
Eyes - Rabbit Result: No eye irritation
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: 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: No data available
Specific target organ toxicity:
- single exposure: No data available
- repeated exposure: No data available
Aspiration hazard: No data available

12. ECOLOGICAL INFORMATION

SECTION 12: Ecological information
12.1 Toxicity
Toxicity to fish: LC50 - Lepomis macrochirus (Bluegill) - 0,12 - 0,26 mg/l - 96,0 h
Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - > 2 mg/l - 48 h
Toxicity to algae: EC50 - Desmodesmus subspicatus (green algae) - 3,9 - 8,4 mg/l - 72 h 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: 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. No data available.

13. DISPOSAL CONSIDERATIONS

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 combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

SECTION 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. (Clodinafoppropargyl)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clodinafoppropargyl)
IATA: Environmentally hazardous substance, solid, n.o.s. (Clodinafop-propargyl)
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

15. REGULATORY INFORMATION

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
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!