

SAFETY DATA SHEET (SDS)

TITLE: CLODINAFOP-PROPARGYL 240 EC

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Product Name : CIBA CLODINAFOP-PROPARGYL 240 EC
Common Name : Clodinafop-propargyl 240 g/l EC
CAS No. : 105512-06-9
EC No. : NA
Index Number : NA

1.2 Relevant identified uses of the substance and uses advised against:

Agricultural Pesticide

1.3 Details of the Manufacturer / Supplier of the safety data sheet:

Supplier CIBA AGRIPHARMA SARL
78 Boulevard Haussmann
75008 Paris , France
Tel Tel: +33 6 51 39 90 00
E-mail administration@ciba- agripharma.com
Webpage www. ciba- agripharma.com

1.4 Emergency Phone Number (24 hours)

+33 6 51 39 90 00

2.0 HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms



Signal word :	Danger
Hazard statements :	H227 Combustible liquid. H304 May be fatal if swallowed and enters airways.
Supplemental Hazard Statements:	AUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements :	Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Storage: P403 Store in a well-ventilated place. P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Concentration (% w/w)
hydrocarbons, C10-C13, aromatics, <1% naphthalene	Not Assigned	>= 30 -< 60
clodinafop-propargyl (ISO)	105512-06-9	>= 10 -< 30
dihydro-2(3H)-furanon	96-48-0	>= 10 -< 20
cloquintocet-mexyl	99607-70-2	>= 1 -< 10
calcium dodecylbenzene sulphonate	26264-06-2	>= 1 -< 3
naphthalene	91-20-3	< 1

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment

4.1.2 In case of inhalation

Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Get medical attention immediately.

4.1.3 In case of skin contact

Wash off immediately with plenty of water and soap. Take off all contaminated clothes and shoes immediately. If skin irritation persists seek medical attention immediately. Wash contaminated clothing before re-use.

4.1.4 In case of eyes contact

Hold eye open and rinse the eye, also under the eyelids, with plenty of water for 15 minutes. Remove contact lenses if present. Seek medical attention immediately.

4.1.5 In case of ingestion

Seek medical attention immediately and show the container or label. Do not induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

4.2 Note to physician

There is no specific antidote available. Treat symptomatically.

4.3 Most important symptoms and effects, both acute and delayed : N/A

5.0 FIRE – FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon oxides, Oxides of phosphorus, Aluminum oxide.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and full protective clothing. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow to enter soil, waterways or waste water canal. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

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.

6.3.1 Other information

If the product contaminated rivers and lakes or drains inform respective authorities.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information: Not available

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Handle and open container in a manner as to prevent spillage.

7.1.2 Advice on general occupational by hygiene

When handling do not eat, drink or smoke. Wash hand thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco. Remove personal protective equipment immediately after handling this product. Remove clothing immediately and clean thoroughly before using again.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Keep in original containers tightly closed in a dry, cool and well-ventilated place out of direct sunlight. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions : N/A

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

N/A

8.1.2 Additional exposure limits under the conditions of use

Not available

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

8.2.2 Personal protection equipment

The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

8.2.3 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).

8.2.4 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.

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

8.2.5 Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face 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).

8.2.6 Other information

Follow all label instructions. Train employees in safe use of the product. Follow manufacturer's instructions for cleaning/maintaining personal protection equipment. Keep and wash personal protection equipment separately from other laundry.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	: Liquid
Colour	: yellow to brown
Odour	: aromatic
Odour Threshold	: No data available
	: 4 - 8
	Concentration: 1 % w/v
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: 86 °C

9.2 Other information

N/A

10.0 STABILITY AND RELIABILITY

10.1 Reactivity

No information available

10.2 Chemical stability

Stable under normal storage conditions (at normal temperature and pressure)

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur. At elevated temperatures it will undergo rapid, gas evolving thermal decomposition.

10.4 Conditions to avoid

Avoid elevated temperatures

10.5 Incompatible materials

Strong oxidizing agents, strong acids, nitric and sulfuric acid or strong alkalis

10.6 Hazardous decomposition products

Thermal decompositions on burning or combustion will evolve toxic and irritant vapors.

11.0 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

- LD50 (Dermal,Rat) : >2000 mg/kg.

- LD50 (Oral, Rat) : >5000 mg/kg
 - LC₅₀(4h, inhalation, rats) : 1.7 mg/L
- Skin corrosion/Irritation : Non irritant to skin (rabbits)
- Serious eye damage/irritation : sever eye irritant (rabbits)
- Respiratory or skin sanitization : N/A.
- Repeated exposure : N/A.

Other information

- Germ cell mutagenicity : Not available
- Carcinogenicity : 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 : Reproductive effector in mice and rats.
- STOT- single exposure : Not available
- STOT- repeated exposure : Not available
- Aspiration hazard : Not available

12.0 ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Aquatic Toxicity

LC50 - LC50 - Salmo salar (Atlantic salmon) - 94,3 mg/l - 96 h

EC50 - Daphnia magna (Water flea) - 304 mg/l - 48 h

12.1.2 Avian Toxicity

N/A

12.1.3 Persistence and degradability

N/A

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Container and washing must be disposed to an approved facility.

13.2 Product / Packaging disposal

13.2.1 Product waste disposal

Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

13.2.2 Packing waste disposal

Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14.0 TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLODINAFOP-PROPARGYL AND SOLVENT NAPHTHA)
Class	:	9
Packing group	:	III
Labels	:	9

IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (CLODINAFOP-PROPARGYL AND SOLVENT NAPHTHA)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
Environmentally hazardous	:	yes

IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLODINAFOP-PROPARGYL AND SOLVENT NAPHTHA)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F

Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

15.0 REGULATORY INFORMATION

15.1 Hazard and Precautionary statements in accordance with the regulation 1272/2008/EC

Pictograms and Signal Word Code(s) See section 2.1.

Hazard Statement Code (s) See section 2.1

16.0 OTHER INFORMATION

16.1 Pictograms and Signal Word Code(s) mentioned in section 3 in accordance with the regulation 1272/2008/EC

See section 2.1

16.2 Hazard statements mentioned in section 3 in accordance with the regulation 1272/2008/EC:

See section 2.1

16.3 Training advice

N/A

16.4 Further Information

The information contained herein relates only to the specified material identified. CIBA AGRIPHARMA, believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. CIBA AGRIPHARMA urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

This material safety data sheet adopts the provisions of the European Commission Directive 2001/58/EC and Regulations 1272/2008 (CLP) and 453/2010 (REACH).