

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Clodinafop-propargyl 100 EC

Revision date 17-Jun-2021 Version 1 Supersedes Date: 17-Jun-2021

Product Code(s) HRB01146-GHS ADM.01750.H.2.B

Print Date 17-Jun-2021

1. Identification

Product identifier

Clodinafop-propargyl 100 EC

Other means of identification

Synonyms Atops 100

Recommended use of the chemical and restrictions on use

Recommended use Herbicide; Restricted to professional users

Uses advised against No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier ADAMA Agan Ltd

P.O.B. 262 ASHDOD Israel

Emergency telephone number

Emergency Telephone ADAMA Makhteshim: + 972 8 6560800/801; + 972 8 6296713/714

ADAMA Agan: + 972 8 8515341

E-mail address SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Oral	Category 5 - (H303)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Acute aquatic toxicity	Category 2 - (H401)
Chronic aquatic toxicity	Category 2 - (H411)

Label elements

Signal word Warning

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Hazard pictograms



Hazard statements H303 - May be harmful if swallowed

H319 - Causes serious eye irritation

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

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Synonyms Atops 100

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Clodinafop-propargyl	105512-06- 9	7-12	600-662-6	Acute Tox. 4 (H302) Skin Sens. 1 (H317) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=1
cloquintocet-mexyl	99607-70-2	1- 4	619-447-3	Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	-	64-72	922-153-0	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411)	
Propylene carbonate	108-32-7	8-12	203-572-1	Eye Irrit. 2 (H319)	
Poly(oxy-1,2-ethanediyl), .alpha[tris(1-phenylethyl)phenyl]om egahydroxy-	99734-09-5	6-10	619-457-8	Aquatic Chronic 3 (H412)	

4. First-aid measures

Description of necessary first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eve contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately.

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Ingestion

For emergency responders

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms/effects, acute and delayed

Symptoms None known.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Small Fire Dry chemical, CO2, water spray or regular foam

Do not scatter spilled material with high pressure water streams Large Fire

Dike fire-control water for later disposal Water spray, fog or regular foam

Move containers from fire area if you can do it without risk

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Some may burn but none ignite readily A fire or explosion Containers may explode when heated

Some may be transported hot

Specific/special fire-fighting measures

Specific/special fire-fighting

measures

No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Health risks

Contact may cause burns to skin and eyes
Runoff from fire control may cause pollution

Fire may produce irritating, corrosive and/or toxic gases

Inhalation of material may be harmful

Some liquids produce vapors that may cause dizziness or suffocation

Spill or Leak Do not touch or walk through spilled material

Prevent dust cloud

Stop leak if you can do it without risk

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Precautions for safe handling

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control parameters

Exposure guidelinesThis product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear suitable gloves. Hand protection

If splashes are likely to occur, wear safety glasses with side-shields. Eye/face protection

Wear suitable protective clothing. Skin and body protection

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do General hygiene considerations

not eat, drink or smoke when using this product.

Local authorities should be advised if significant spillages cannot be contained. **Environmental exposure controls**

9. Physical and chemical properties

Information on basic physical and chemical properties

Property Values Method Remarks

Appearance Physical state liquid Color amber

Odor Aromatic Odor threshold No data available

рΗ

CIPAC MT 75.3

Melting point / freezing point °C No data available Boiling point / boiling range °C : No data available

Flash point °C 97.6 ISO 2719:2002 E

Evaporation rate No data available Flammability (solid, gas) Not applicable Upper/lower flammability or No data available

explosive limits

Vapor pressure kPa No data available Vapor density No data available

Relative density 1 - 1.1

Solubility(ies) mg/l No data available

See Section 12 for additional Partition coefficient Log Pow **Ecological Information**

EEC A.5

ISO 2431 (1993)

: No data available Autoignition temperature °C No data available

Decomposition temperature °C

Kinematic viscosity mm2/s 40 °C: 32

Explosive properties Not an explosive **Oxidizing properties** No data available Surface tension No data available **Particle Size** Not applicable

Other information

Bulk density g/ml : Not applicable

10. Stability and reactivity

Reactivity

Reactivity No information available.

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Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on toxicological effects

Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 LC50	: > 5.30	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Irritating to eyes	Rabbit	OECD 405	
Sensitization	: Not a sensitizer	Guinea pig	OECD 406	

Chronic toxicity

Germ cell mutagenicity

Chemical name

Clodinafop-propargyl : Not classified cloquintocet-mexyl : Not classified

Carcinogenicity

Chemical name

Clodinafop-propargyl : Not Carcinogenic cloquintocet-mexyl : Not Carcinogenic

Reproductive toxicity .

Chemical name

Clodinafop-propargyl : Not toxic for the reproductive system cloquintocet-mexyl : Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Clodinafop-propargyl : No data available cloquintocet-mexyl : No data available

STOT - Repeated Exposure

Chemical name

Clodinafop-propargyl : H373 - May cause damage to organs through prolonged or repeated exposure cloquintocet-mexyl : H373 - May cause damage to organs through prolonged or repeated exposure

Aspiration hazard Chemical name

Clodinafop-propargyl No data available cloquintocet-mexyl No data available

12. Ecological information

Ecotoxicity

Aquatic toxicity

Acute toxicity Values Species Method Remarks

Fish 96-hour LC50 mg/l No data available Crustacea 48-hour EC50 mg/l No data available No data available Algae 72-hour EC50 mg/l Other plants EC50 mg/l No data available

Chronic aquatic toxicity Values Species Method Remarks

Fish NOEC mg/l No data available Crustacea NOEC mg/l No data available Algae NOEC mg/l No data available Other plants NOEC mg/l No data available

Terrestrial Toxicity Birds Oral LD50 mg/kg

Chemical name

: > 2000 **EPA-OPPTS** Clodinafop-propargyl Bobwhite quail 850.2100

cloquintocet-mexyl : > 2000 Mallard duck

Bees Oral LD50 µg/bee

Chemical name

Clodinafop-propargyl : > 104 OECD 213 OECD

214

cloquintocet-mexyl : > 100

Abiotic Degradation Water DT50 days

Chemical name

Clodinafop-propargyl : < 2 pH 8.16-8.39, 20 ° C

cloquintocet-mexyl : < 1

Soil DT50 days Chemical name

Clodinafop-propargyl 1 cloquintocet-mexyl : 0.5 - 2.4

Biodegradation

Chemical name

Clodinafop-propargyl : Not readily biodegradable

No data available cloquintocet-mexyl

Log Pow <u>Values</u> <u>Method</u> Remarks Chemical name

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EEC A.8 Clodinafop-propargyl : 3.4 20° C

cloquintocet-mexyl : 5.03

Bioconcentration factor (BCF)

Chemical name

Clodinafop-propargyl : 190 - 210 whole fish

No data available cloquintocet-mexyl

Adsorption/Desorption Method <u>Values</u> Remarks Chemical name

Clodinafop-propargyl 1156 KOC

cloquintocet-mexvl Low mobility in soil

13. Disposal considerations

Disposal methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport information

ADR

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons,

C10-C13, aromatics, <1% naphthalene, Clodinafop-propargyl)

14.3 Transport hazard class(es)

Labels

9 Ш 14.4 Packing group

Description UN3082. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Clodinafop-propargyl), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions 274, 335, 601, 375

9

Yes

Classification code M6

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons,

C10-C13, aromatics, <1% naphthalene, Clodinafop-propargyl)

14.3 Transport hazard class(es)

9 9 Labels 14.4 Packing group Ш

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Clodinafop-propargyl), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 375, 601

Classification code M6

IMDG

UN3082 14.1 UN number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, 14.2 UN proper shipping name

C10-C13, aromatics, <1% naphthalene, Clodinafop-propargyl), Marine pollutant

14.3 Hazard Class

14.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Clodinafop-propargyl), 9, III,

Marine pollutant

14.5 Marine pollutant P
Environmental hazard P

14.6 Special Precautions for Users

Special Provisions 274, 335, 969 EmS-No F-A, S-F IMDG Stowage and segregation Category A

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u>

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons,

C10-C13, aromatics, <1% naphthalene, Clodinafop-propargyl)

14.3 Transport hazard class(es) 9

14.4 Packing group

Description

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Clodinafop-propargyl), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

ERG Code



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

16. Other information

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

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 H411 - Toxic to aquatic life with long lasting effects H412 - Harmful to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 17-Jun-2021

Revision NoteChanges made to the last version are labeled with this sign ***.

Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

List of Acronyns

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number ED Number - EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture Classification procedure

H303 - May be harmful if swallowed Classification based on Calculation method

H319 - Causes serious eye irritation Classification based on test data

H373 - May cause damage to organs through prolonged or repeated Classification based on Calculation method

exposure

H401 - Toxic to aquatic life Classification based on Calculation method
H411 - Toxic to aquatic life with long lasting effects Classification based on Calculation method

Disclaimer

The information provided in this 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