



SAFETY DATA SHEET

TIPTOP 100 EC

SDS/GHS/Isr/V2.3

Revision date: 11.10.2021

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

Product identifiers

Product name: TIPTOP 100 EC
Chemical name: Clodinafop-propargyl 100 g/l + Cloquintocet-mexyl 25 g/l
CAS No.: 105512-06-9 and 99607-70-2

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

Identified uses: Herbicide for agricultural use

Supplier of Safety Data Sheet:

Almandine Corporation SA
Gotthardstrasse 3
6300 Zug
Switzerland
UK Liaison Office:
Tel: +44 20 8995 8391 (Office hours 9 am-5 pm UK time)
Fax: +44 20 8995 7639
Email: almuk@almandine.com

Formulation sites:

a. Agrosmart UK LTD
Clayton West
Huddersfield
West Yorkshire
UK

b. Aydin Kimya Sanayi Ve Tikaret A.Ş.
Velikoy OSB 7
Cadde No: 5/1
Cercezkoy
Turkey

Emergency telephone number

Tel: +44 20 8995 8391 (SDS support, 9.00-5.00 pm; Mon-Fri only, UK)

SECTION 2: HAZARDS IDENTIFICATION

Asp. tox.1
Eye. irrit. 2A
STOT SE 3
STOT RE 2
Aq. Chronic 2



Pictogram(s):

Signal word: Danger

**Hazard statement(s):****H304:** May be fatal if swallowed and enters airways**H319:** Causes serious eye irritation**H336:** May cause drowsiness or dizziness**H373:** May cause damage to organs through prolonged or repeated exposure**H411:** Toxic to aquatic life with long lasting effects**Precautionary statement(s):****P260:** Do not breathe fumes/ gas/ mist/vapours/ spray**P280:** Wear protective gloves/clothing/eye protection/face protection**P301+P310:** IF SWALLOWED: Immediately call a POISON CENTER /doctor**P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing**P312:** Call a POISON CENTER or doctor if you feel unwell**P501:** Dispose of contents/container in accordance with local/regional/national regulation**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients	CAS Number	Concentration (g/L)	Signal word	H-Statements
Clodinafop-propargyl	105512-06-9	100	Warning	H302, H317, H373, H400, H410
Cloquintocet-mexyl	99607-70-2	25	Warning	H317, H400, H410
Solvent Naphtha (petroleum ND)	64742-94-5	>500	Danger	H304, H336, H411
Naphthalene	91-20-3	<1	Danger	H302, H351, H410

SECTION 4: FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre and follow the advice given. Show this Safety Data Sheet to the doctor.

Ingestion: Seek immediate medical attention. Wash out mouth with water. Do not induce vomiting.

Skin contact: Remove all contaminated clothes and footwear immediately. Wash immediately with plenty of soap and water.

Eye contact: Rinse with water for 15 minutes. Remove contact lenses and continue rinsing. Seek medical advice.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Keep warm and at rest, seek immediate medical attention.

Most important symptoms: Nausea, vomiting, stomach-ache, headache, convulsions. Aspiration may cause pulmonary oedema and pneumonitis.

Treatment: Treat symptomatically. No known antidote. If vomiting occurs, keep head below hips to prevent aspiration.



SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Water fog, fine water spray, foam, dry chemical, carbon dioxide.
Do not use water jet.

Hazards from combustion products:

Combustion products are toxic and/or irritant. Fire will produce dense black smoke. Flash-back possible over a considerable distance.

Nitrogen oxides, sulphur dioxide, hydrogen chloride, hydrogen cyanide, and carbon monoxide.

Advice for fire fighters:

Fire-fighters should wear full protective gear, including self-contained breathing apparatus. Keep unnecessary people away. Use water spray to cool containers.

Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear PPE as recommended in section 8. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away.

Environmental precautions: Prevent product from entering drains or water courses. Warn the local water authority if water-courses become contaminated.

Clean-up methods: Pick up and arrange disposal without creating aerosol. Contain spill and absorb with earth, sand, clay, or other absorbent material, collect and store in sealed drums for safe disposal. Decontaminate the area and equipment by washing areas with water. Keep in suitable, closed containers for disposal. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 7: HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid breathing vapour or spray. Avoid contact with skin or eyes and clothing. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Storage: Store in a cool, well-ventilated area in the closed original container, away from direct sunlight and sources of ignition. Protect from heat and humidity. Prevent contamination of ground and water courses.

Incompatibility: None known.



Flammability: Not flammable under normal conditions of use. The product may sustain combustion.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limits:

Clodinafop-propargyl 1 mg/m³ TWA
Cloquintocet-mexyl 10 mg/m³ TWA
Aromatic solvent 100 mg/m³ TWA

Engineering controls:

Use with adequate ventilation. Local exhaust ventilation is recommended to keep levels below the exposure limits.

Personal protective equipment:

Wear face shield or goggles.
Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, heavy-duty shoes or boots.
Wear elbow length butyl rubber gloves.

If working in a poorly ventilated area or if occupational exposure levels are likely to be exceeded, wear a respirator with filter for vapours.

After each day's use, wash gloves, goggles or face shield, respirator if worn, and contaminated clothing.

Do not re-enter treated areas without protective clothing until spray residue has dried.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| a) Appearance: | Yellow brown liquid |
| b) Odour: | virtually odourless |
| c) Odour threshold: | none set |
| d) pH: | 5.0 – 8.0 (1% dilution) |
| e) Melting point/freezing point: | Not determined |
| f) Boiling point/boiling range: | Not determined |
| g) Flashpoint: | >62°C (CC) |
| h) Evaporation rate: | Not measured |
| i) Flammability (solid/gas): | Not flammable |
| j) Upper/lower flammability or explosive limits: | None set |
| k) Vapour pressure: | 2.79 x 10 ⁻⁴ mPa (Clodinafop tech.)
5.31 x 10 ⁻³ mPa (Cloquintocet tech.) |
| l) Vapour density: | 3 x 10 ⁻⁷ Pa m ³ mol ⁻¹ (Clodinafop tech.)
3.02 x 10 ⁻³ Pa m ³ mol ⁻¹ (cloquintocet tech.) |
| m) Relative density: | 1.008 – 1.016 g/mL (25°C) |
| n) Solubility: | Miscible
4.0 mg/L (water, 20°C) (Clodinafop tech.)
0.23 mg/L (water, 20°C) (cloquintocet tech.) |
| o) Partition coefficient: | Log P _{ow} 3.9 (Clodinafop tech.)
Log P _{ow} 5.03 (Cloquintocet tech.) |
| p) Auto-ignition temperature: | Not determined |
| q) Decomposition temperature: | Not determined |
| r) Viscosity: | 13.4 mPa at 24°C |
| s) Explosive properties: | Not explosive |
| t) Oxidising properties: | Not an oxidiser |

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity	Stable under normal conditions of use. Will not polymerise.
Chemical stability	The product is stable if stored and handled as prescribed /indicated.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to instructions.
Conditions to avoid	Sources of ignition and extreme heat.
Incompatible materials	None known.
Hazardous decomposition Products:	Does not decompose at ambient temperature. Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Oral toxicity:	LD ₅₀ rat: >2000-5000 mg/kg (GHS Cat 5)
Dermal toxicity:	LD ₅₀ rat: >2000- 5000 mg/kg (GHS Cat 5)
Inhalation toxicity:	LC ₅₀ rat 4 h >3.5 mg/L (comparable formulation)
Skin irritation:	Not irritating
Eye irritation:	Irritant (reversible effects on eyes Cat 2A)
Skin sensitisation:	Not a skin sensitiser
Long-term exposure:	No long-term risks to man are associated with the normal handling and use of this material.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity (comparable formulation)

Fish toxicity:	LC ₅₀ 96 h rainbow trout	3.6 mg/L
Daphnia toxicity:	EC ₅₀ 48 h <i>Daphnia magna</i>	9.5 mg/L

Clodinafop-propargyl and cloquintocet-mexyl are not persistent in soil or water.
Clodinafop-propargyl has low mobility in soil. Cloquintocet-mexyl is immobile in soil.
Clodinafop-propargyl and cloquintocet-mexyl do not bioaccumulate.

Virtually non toxic to bees

SECTION 13: DISPOSAL CONSIDERATIONS**Waste treatment methods**

Product:	Dispose of waste product through an official waste contractor. Obtain advice from local waste regulation authority.
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Contaminated packaging: Triple- or pressure-rinse containers before disposal. Add rinsings to spray tank.
Do not dispose of undiluted chemicals on-site.
Do not burn empty containers. Recycle, or return to supplier through local schemes if applicable. Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORTATION INFORMATION

UN number: 3082

UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S.
(contains clodinafop-propargyl and cloquintocet-mexyl)

Transport hazard class: ADR/RID: 9 IMDG: 9 IATA: 9

Packaging group: ADR/RID: III IMDG: III IATA: III

Environmental hazard: ADR/RID: Yes IMDG: Marine pollutant: Yes IATA: Yes

SECTION 15: REGULATORY INFORMATION

No additional regulatory information required for this product.

SECTION 16: OTHER INFORMATION**H-statements:**

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
H336	May cause drowsiness and dizziness
H351	Suspected of causing cancer
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

TWA: Time weighted average is the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within the safety data sheet since the customer's handling of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for his intended use.

Sections 9, 11 and 12 based on available EU and own data.
Self-classification of mixture
Update to section 3