**Almandine Corporation SA**

Gotthardstrasse 3, 6300 Zug, Switzerland
Tel: +41 41 726 30 65 Fax: +41 41 726 30 61

Email: almch@almandine.com

# SAFETY DATA SHEET

# STRIPTEASE SC

*SDS/GHS/ISR/V1.0* **Issue date:** 02.03.2022

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

**Product identifiers**

| | |
|---|---|
| Product name: | Striptease SC |
| Chemical name: | Thidiazuron and Diuron |
| CAS No.: | 51707-55-2 and 330-54-1 |

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

Identified uses: Plant growth regulator

**Details of the supplier of the safety data sheet**

Supplier:
Almandine Corporation SA
Gotthardstrasse 3
6300 Zug
Switzerland
Tel: +44 20 8995 8391 (UK office)
Fax: +44 20 8995 7639
Email: almuk@almandine.com

Formulator:
Agrosmart UK LTD
Clayton West
Huddersfield
West Yorkshire
UK

**Emergency telephone number**

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

## SECTION 2: HAZARDS IDENTIFICATION

Skin irrit 2
Skin sens. 1
Eye irrit 2
Carc. 2
STOT RE 2
Aquatic Chronic 2

**Pictogram(s):**

**Signal word:** Warning

**Hazard statement(s):**

**H315:** Causes skin irritation
**H317:** May cause an allergic skin reaction
**H319:** Causes serious eye irritation
**H351:** Suspected of causing cancer
**H373:** May cause damage to organs through prolonged or repeated exposure
**H411:** Toxic to aquatic life with long lasting effects

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**Precautionary statement(s):**

**P280:** Wear protective gloves/protective clothing/eye protection/face protection
**P302+P332:** IF ON SKIN; Wash with plenty of water
**P305+P351+P338+P310:**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
**P312:** Call a POISON CENTER or doctor if you feel unwell
**P501:** Dispose of contents/container in accordance with local/regional/regulation

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients | CAS Number | Concentration (%) | Signal word | H-statements |
|---|---|---|---|---|
| Thidiazuron | 51707-55-2 | 12.0 | - | H413 |
| Diuron | 330-54-1 | 6.0 | Warning | H302, H351 H373, H400, H410 |
| De-aromatised Hydrocarbon | 64742-47-8 | >25 | Warning | H304 |

## 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.

**Inhalation:** If inhaled, remove person to fresh air and keep at rest. Get immediate medical attention.

**Skin contact:** Remove contaminated clothing. Wash with plenty of soap and water. If symptoms persist, get medical attention.

**Eye contact:** Rinse immediately with plenty of water keeping the eyelids open, for at least 15 minutes. Remove contact lenses if present and easy to do, then continue rinsing. Get medical attention if irritation develops or persists.

**Ingestion:** DO NOT induce vomiting. Wash mouth out with water. Get immediate medical attention. Never give anything by mouth to an unconscious person. Inject activated charcoal

**Treatment:**
**Antidotes for Diuron:** Methylene blue and toluidine blue

**Antidote for Thidiazuron:** None. Oxygen may be administered. Bed rest is recommended. Alcohol is contraindicated. Spontaneous recovery is expected.

**Advice to doctor:** For local contamination, treatment should be symptomatic after decontamination. For systemic poisoning, initial treatment should be symptomatic and supportive. If large amount has been ingested, the following measures should be considered: Monitor cardiac function, kidney function, red blood cells, met-haemoglobin level, ECG, serum potassium, gastric lavage and charcoal administration.

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## 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. 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. Can cause moderate eye irritation. Avoid breathing vapour or spray. For product in eyes, wash immediately with water. For product on skin, immediately wash area with soap and water. 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 frost. Prevent contamination of ground and water courses.

**Incompatibility:** Incompatible with acids and alkalis at high temperatures.

**Flammability:** Not flammable under normal conditions of use. The product does not sustain combustion.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure limits:**
Diuron 10 mg/m$^3$ TWA

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

**Personal protective Equipment:**
Wear EN approved 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 nitrile or neoprene 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

| | | |
|---|---|---|
| a) | Appearance: | Off-yellow to brownish liquid |
| b) | Odour: | Mild |
| c) | Odour threshold: | None set |
| d) | pH: | 6-8 (1% dilution) |
| e) | Melting point/freezing point: | Not measured |
| f) | Boiling point/boiling range: | Not measured |
| g) | Flash–point: | Does not flash |
| h) | Evaporation rate: | Not measured |
| i) | Flammability (solid/gas): | Not flammable |
| j) | Upper/lower flammability or explosive limits: | None set |
| k) | Vapour pressure: | 4 x $10^{-6}$ mPa (25°C) - Thidiazuron tech.<br>1.15 x $10^{-3}$ mPa (25°C) - Diuron tech. |
| l) | Vapour density: | 2.00 X $10^{-06}$ Pa m$^3$mol$^{-1}$ - Diuron tech. |
| m) | Relative density: | 1.06 ± 0.02 g/mL (20°C) |
| n) | Solubility: | 35.6 mg/L (water) - Diuron tech.<br>20 mg/L (water) - Thidiazuron tech. |
| o) | Partition coefficient: | Log $P_{ow}$ 2.87 -- Diuron tech.<br>Log $P_{ow}$ 1.77 -- Thidiazuron tech. |
| p) | Auto-ignition temperature: | Not measured |
| q) | Decomposition temperature: | >190°C - Diuron tech.<br>>212°C - Thidiazuron tech. |
| r) | Viscosity: | Not measured |
| s) | Explosive properties: | not explosive |
| t) | Oxidising properties: | not oxidising |

## 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.

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**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** Strong oxidisers, alkalis.

**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: >2500 mg/kg (GHS Cat 5)

**Dermal toxicity:** $LD_{50}$ rat: >2000 mg/kg (GHS Cat 5)

**Inhalation toxicity:** $LC_{50}$ rat 4h >2.3 mg/L (calc.)

**Skin irritation:** Irritant

**Eye irritation:** Irritant

**Skin sensitisation:** Skin sensitiser

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity** (technical materials)

| Study | Species | Thidiazuron | Diuron |
|---|---|---|---|
| **Fish, $LC_{50}$ (96h)** | Rainbow trout | >1000 mg/l | 5.6 mg/l |
| **Bird, Oral $LD_{50}$** | Bobwhite quail | >3160 mg/kg | 1104 mg/kg |
| **Daphnia, $EC_{50}$ (48h)** | *Daphnia magna* | >10 mg/l | 1.4 mg/l |
| **Algae, $IC_{50}$ (72h)** | Green algae | <10 mg/l | 0.022 mg/l |
| **$LC_{50}$ (14d)** | Earthworm | >1400 mg/kg | >978 mg/kg |
| **$LD_{50}$ oral** | Bee | Non-toxic | Non-toxic |

This substance is not considered to be very persistent and has a moderate potential to bioaccumulate,

**Fate in soil:**
Thidiazuron is strongly adsorbed by soil. Its half-life in soil is 26-144 days under aerobic conditions, 28 days under anaerobic conditions. Essential soil microbial processes are only temporarily influenced, if at all.

The partition coefficient Log $P_{ow}$: Thidiazuron 1.77; Diuron 2.85

Diuron stability in soil $DT_{50}$ ca. 65 days

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## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Product:** Dispose of waste product through an official waste contractor.
Obtain advice from local waste regulation authority.

**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, solid, N.O.S. (contains thidiazuron and diuron) | | |
| **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
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H319: Causes serious eye irritation
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
H413: May cause long-lasting harmful effects to aquatic life

Time weighted average (TWA) 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 – based on studies.
GHS Version