

SAFETY DATA SHEET

RACER 200 CS

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

Product name : RACER 200 CS
Chemical name of active ingredient(s) : 3-chloro-4-chloromethyl-1-(α,α,α -trifluoro-m-tolyl)-2-pyrrolidinone.
Manufacturer : Agan Chemical Manufacturers Ltd.
 Northern Industrial Zone,
 P.O.Box 262, Ashdod, Israel.
Emergency telephone number : +972-8-8515211

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Information on hazardous ingredients *

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Flurochloridone	61213-25-0	17 - 19.5	262-661-3	Xn, N	R50/53-62-63
Solvent naphta (petroleum), heavy arom.	64742-94-5	18 - 21	265-198-5	Xn, N	R51/53-65-66

* *Occupational Exposure Limit(s), if available, are listed in section 8*

3. HAZARDS IDENTIFICATION

Most important hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Repeated exposure may cause skin dryness or cracking.

4. FIRST-AID MEASURES

Effects and symptoms

First-aid measures : Remove victim from area of exposure. Wash off remaining material with plenty of water.

Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.

Ingestion : Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.

Skin contact : Remove contaminated clothing. Wash away remainder with water and soap.

Eye contact : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.

Notes to a physician : There is no specific antidote. Treat symptomatically and give supportive therapy.

Protection of first-aiders : Use appropriate protection (see section 8).

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5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Dry chemical, water spray, foam, carbon dioxide.
- Not suitable** : Water jet.
- Unusual fire/explosion hazards** : Flashback may occur along vapour trail.
- Hazardous thermal (de)composition products** : Chloride compounds, Fluoride compounds and nitrogen oxides.
- Protection of fire-fighters** : Self-contained breathing apparatus and total protection required in enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear suitable protective clothing.
- Environmental precautions** : Do not discharge into drains or the environment.
- Methods for cleaning up** : Keep away from: open flame, sparks and heat. Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

7. HANDLING AND STORAGE

- Handling** : Avoid contact with skin and eyes. Ventilation required. Keep away from: sparks, open flame and direct sunlight.
- Storage** : Keep only in the original container. Keep in a cool, dry, well ventilated place away from direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures** : Ventilation required.
- Hygiene measures** : When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
- Occupational Exposure Limits**
- Common name** : **Flurochloridone**
- TWA** : 0.3 mg/m³ (8 hours)
- Common name** : **Solvent naphtha (petroleum), heavy arom.**
- TLV (USA)** : 100 ppm
- Personal protective equipment**
- Respiratory system** : Respiratory protection is not required if good ventilation is maintained.
- Skin and body** : Wear suitable protective clothing. Chemical resistant boots.
- Hands** : Chemical resistant gloves.
- Eyes** : Safety goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Light brown

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Odour	: Aromatic
Boiling point	: 102°C
Density	: 1.11 ± 0.015 mg/mL @ 20°C
Vapour pressure	: 0.44 mPa @ 25°C (Flurochloridone)
Solubility in water	: Miscible
Octanol/water partition coefficient	: log = 3.36 (Flurochloridone)
pH	: 9.5 - 11
Flash point	: > 102°C
Flammability	: Not flammable
Autoignition temperature	: 565°C
Explosion properties	: Not explosive
Oxidation properties	: Not oxidizing
Viscosity	: 1.13 x 10 ³ mPa S @ 40°C
Other properties	: Surfaction tension : 60.5 mN/m @ 21.5°C

10. STABILITY AND REACTIVITY

Stability	: Not subject to polymerization.
Materials to avoid	: Oxidizing agents, acids and alkali.
Hazardous reactions	: None
Hazardous decomposition products	: Chloride compounds, Fluoride compounds and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Preparation (similar formulation)

Acute toxicity - Oral	: LD ₅₀ (rat) > 5,000 mg/kg
Acute toxicity - Dermal	: LD ₅₀ (rat) > 4,000 mg/kg
Skin irritation	: Mildly irritating
Eye irritation	: Slightly irritating
Sensitization	: Non sensitizer (guinea-pig)
Common name	: Flurochloridone
Chronic toxicity	: NOEL (rat) = 100 ppm (male) (3.9 mg/kg/day) - 2 years NOEL (rat) = 400 ppm (female) (19.3 mg/kg/day) - 2 years NOEL (mouse) = 50 ppm (6.3 mg/kg/day) - 2 years
Reproduction toxicity	: NOEL (rat) = 40 ppm (2.3 mg/kg/day) - 3 generation. High doses impairs fertility in male rats ; not seen in rabbits or monkeys.
Other information	: Not genotoxic.

Teratogenicity:

NOEL (rat) = 20 mg/kg/day
NOEL (rabbit) = 20 mg/kg/day
High doses in rats produce teratogenic effects in the presence of maternal toxicity.

12. ECOLOGICAL INFORMATION

Preparation (similar formulation)

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Ecotoxicity	<p>: Fish LC₅₀ (96 hours) rainbow trout (oncorhynchus mykiss) = 16.5 mg/l Daphnia magna EC₅₀ (48 hours) = 26 mg/l</p> <p>Toxic to aquatic organisms. Low toxicity: birds.</p>
Common name	: Flurochloridone
Mobility	<p>: Soil Low mobility. K_{oc} = 680 - 1,300 mL/g K_d = 7.8 - 19 mL/g No risk of underground water contamination.</p>
Persistence/degradability	<p>: Soil The product is not persistent. Field - Half-life time (t_{1/2}): 9-70 days. Laboratory - DT₅₀ = 4-27 days. Degradation is primarily via: microorganisms. The product is poorly biodegradable.</p> <p>Water Hydrolytic DT₅₀ = Stable (pH 5, 9, 7) Phytolytic DT₅₀ = 2.6 - 4.4 days (pH 7, 25°C) DT₅₀ (water/sediment) = 3-9 days.</p>
Bioaccumulative potential	: High potential for bioaccumulation. However, there is rapid elimination from fish (96% within 4 days).
Ecotoxicity	<p>: Fish LC₅₀ (96 hours) rainbow trout (oncorhynchus mykiss) = 3.0 mg/L bluegill sunfish (lepomis macrochirus) = 6.7 mg/L</p> <p>Daphnia magna EC₅₀ (48 hours) = 5.1 mg/l NOEC (21 days) = 1 mg/L</p> <p>Algae (chlorella vulgaris) LC₅₀ (96 hours) = 0.0064 mg/l</p> <p>Birds Bobwhite quail (colinus virginianus) LD₅₀ > 2,150 mg/kg LC₅₀ > 5,000 mg/kg (8-day feeding) Mallard duck (anas platyrhynchos) LC₅₀ > 5,000 mg/kg (8-day feeding)</p> <p>Bees Oral and Contact LD₅₀ (48 hours) > 100 µg/bee</p> <p>Very toxic to aquatic organisms. Not toxic: bees. Low toxicity: birds.</p>

13. DISPOSAL CONSIDERATIONS

Methods of disposal	: Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers, In accordance with national and regional regulations.
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14. TRANSPORT INFORMATION

International transport regulations	
UN number	: 3082

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Land - Road/Railway

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S. (flurochloridone, alkyl {C3-5} benzene)

ADR/RID Class : 9, M6, PG III

Hazard Identification Number : 90

Inland waterways

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S. (flurochloridone, alkyl {C3-5} benzene)

ADNR Class : 9, M6, PG III

Sea

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S. (flurochloridone, alkyl {C3-5} benzene)

IMDG Class : 9, Label 9 + Marine pollutant

Packing group : III

Emergency Schedules (EmS) : F-A, S-F

Air

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S. (flurochloridone, alkyl {C3-5} benzene)

UN/ID Number : 3082

IATA-DGR Class : 9

National transport regulations

No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations (Directives 67/548/EEC, 1999/45/EC).

Hazard symbol(s) : Xn, N



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

Risk phrases : R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62: Possible risk of impaired fertility.
R63: Possible risk of harm to the unborn child.
R66: Repeated exposure may cause skin dryness or cracking.

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Safety phrases

: S02: Keep out of the reach of children.
S13: Keep away from food, drink and animal feedingstuffs.
S20/21: When using do not eat, drink or smoke.
S29/35: Do not empty into drains; dispose of this material and its container in a safe way.
S36/37: Wear suitable protective clothing and gloves.
S46: If swallowed, seek medical advice immediately and show this container or label.
S57: Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

HISTORY

Date of printing : 22/06/2005
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Date of issue : 22/06/2005
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The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code

Prepared by : Ahmed Taya/Jennifer Ashtamkar.