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**Safety Data Sheet for use in USA dated 2/07/07**

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**1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

Trade name: STRADA® CA  
Trade code: IR5878 50 WG  
Product type and use: Herbicide  
EPA Reg. No.: 80289-5  
Company: ISAGRO USA- 430 Davis Dr., Suite 240, Morrisville NC 27560  
Subsidiary of: Isagro S.p.A. – Via Caldera, 21 – 20153 Milano, Italy  
Emergency telephone numbers:  
Isagro USA (919) 321-5200 / CHEMTREC (800) 424-9300

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**2. COMPOSITION/INFORMATION ON ACTIVE INGREDIENTS**

48.5-51.5%(50.0% nominal) Orthosulfamuron  
CAS: 213464-77-8

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**3. HAZARDS IDENTIFICATION**

CAUTION: Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation.  
Avoid contact with skin, eyes or clothing. Avoid breathing spray.

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**4. FIRST AID MEASURES**

- If swallowed:**
- Call poison control center or doctor immediately for treatment advice.
  - Have person sip a glass of water if able to swallow.
  - Do not induce vomiting unless told to do so by the poison control center or doctor.
- If on skin or clothing:**
- Do not give anything by mouth to an unconscious person.
  - Take off contaminated clothing
  - Rinse skin immediately with plenty of water for 15-20 minutes.
  - Call a poison control center or doctor for further treatment advice.
- If inhaled:**
- Move person to fresh air.
  - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- If in eyes:**
- Call a poison control center or doctor for further treatment advice.
  - Hold eye open and rinse slowly and gently with water for 15-20 minutes.
  - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
  - Call a poison control center or doctor for further treatment advice.
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**5. FIRE-FIGHTING MEASURES**

Recommended extinguishers:  
Water, CO2, Foam, Chemical powders, according to material involved in the fire.  
Extinguishers not to be used:  
None in particular.  
Risks arising from combustion:  
Avoid inhaling the fumes which at high temperatures may contain toxic fumes such as CO(x), NO(x) and SO(x).  
Protective equipment:  
Wear breathing protection(respirator)and standard protection equipment according to the materials involved in the fire.

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## 6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing (see Section 8).

Environmental measures:

If the product has entered a waterway and/or drainage system, or has contaminated the ground and/or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product and prevent it from entering into drainage systems, if possible. In so doing wear protective clothing (see Section 8). After the product has been recovered, rinse the area and contaminated materials involved with water. Dispose unrecoverable product, rinsate, or rinsate solids as hazardous substance (see Section 13).

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## 7. HANDLING AND STORAGE

Handling precautions:

Avoid contact with skin, eyes or clothing (see Section 8).

Do not eat, drink or smoke while working.

Incompatible materials:

None in particular.

Storage conditions:

Store in a cool, dry place

Instructions regarding storage premises:

Adequately ventilated premises.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection

None required for normal use.

Protection for eyes

Use protective eyewear

Protection for hands:

Use chemical resistant gloves made of waterproof material.

Protection for skin:

Use coveralls (long sleeve shirt and pants) and shoes plus socks.

Exposure limit(s)

ACGIH TLV: NDA

OSHA PEL: NDA

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Solid, Greyish
Odor:	Practically Odorless
pH:	6.86 (1% dispersion)
Flammability properties:	Not flammable
Explosive properties:	Not explosive
Autoignition temperature	395°C
Partition c. (n-octanol/H <sub>2</sub> O):	2.02 at pH 4, 1.31 at pH 7, <0.3 at pH 9(technical material)

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## 10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

None in particular.

Hazardous decomposition products:

None.

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50 (oral): >5000 mg/kg (rat)

LD50 (dermal): > 5000 mg/kg (rat)

LC50 (4h) (inhalation): >5.00 mg/L (rat) chemically determined; > 4.38 mg/l(rat) gravimetrically determined

Irritation:

Skin: not irritant

Eye: moderate eye irritation

Sensitization:

Not sensitizing

Data referred to Orthosulfamuron Technical:

Carcinogenic effects:

No carcinogenic effects.

Mutagenic effects:

No mutagenic effects.

Teratogenic effects:

No teratogenic effects.

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## 12. ECOLOGICAL INFORMATION

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Rainbow trout: LC50 (96h): >122 mg/l

Rainbow trout: LC50 (96h) >100 mg/l

Daphnia(*Daphnia magna*): LC50 (21-day): >105 mg/l

Algae (*Scenedesmus Subspicatus*): ErC50 (72h): 13 mg/l

Anabaena flos-aquae: EbC50(72h): 1.9 mg/l

Environmental Fate

Mobility: OECD Mobility Class=II

Persistence/degradation: In aerobic conditions the half life ranges from 20 to 80 days. In anaerobic conditions the half life is 8 days.

Bioaccumulation: Bioaccumulation in soil is not expected.

Adopt good working practices so that the product is not released into the environment.

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## 13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send non-recoverable product, rinsate or rinsate solids to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## 14. TRANSPORT INFORMATION

DOT-UN number: 3077

DOT-Class: 9

DOT-Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.(orthosulfamuron)

DOT-Label/Placard: 9

DOT-Packing Group: III

DOT-Marine pollutant: No

DOT-Limited Quantity Inner package not over 5.0kg; Each package may not exceed 30 kg gross weight

ADR/RID-UN number: 3077

ADR/RID-Class: 9

ADR/RID-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.(orthosulfamuron)

ADR/RID-Label/Placard: 9

ADR/RID-Packing Group: III

ADR/RID-Marine pollutant:	No
IMDG-UN number:	3077
IMDG-Class:	9
IMDG-Shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(orthosulfamuron):
IMDG-Label/Placard:	9
IMDG-Packing group:	III
IMDG-Marine pollutant:	No
IMDG-EmS:	F-A, S-F

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#### 15. REGULATORY INFORMATION

USEPA Registration Number 80289-5

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#### 16. OTHER INFORMATION

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release.