

# SAFETY DATA SHEET

**Stracta 50 SC**

SDS #: 50000667

Revision date:

2021-03-18 Version 2

Format: BR



## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Stracta 50 SC

### Other means of identification

**Product Code(s)** 50000667, FO002163

**UN/ID no** UN3028

**Synonyms** Hook 50 SC, IUPAC: 2',4'-difluoro-2-( $\alpha,\alpha,\alpha$ -trifluoro-m-tolyloxy)nicotinilide

**Active Ingredient(s)** Diflufenican

### Recommended use of the chemical and restrictions on use

**Recommended Use:** Herbicide.

**Restrictions on Use:** Use as recommended by the label.

### Details of the supplier of the safety data sheet

**Formulator** Cheminova Deutschland GmbH & Co. KG, Stader Elbstrabe 28, 21683 Stade, Alemania

**Emergency telephone number:**

911

1 703 / 741-5970 (CHEMTREC - International)

Guatemala - Center of Toxicological Information and Assistance - (502) 2251-3560 / 2232-0735

El Salvador - Rosales National Hospital - (503) 2231-9262

Honduras - Hospital School - (504) 232-6105

Nicaragua - National Center of Toxicology - (505) 2289-4700 ext. 1294 cel. 8755-0983

Costa Rica - National Center of Poisoning - (506) 2223-1028; 800-INTOXICA

Panama Center of Research and Information on Medications and Toxicology (507) 523-4948

Dominican Republic - Drug Information and Poisoning Center - (809) 562-6601 Ext. 1801

## Section 2: HAZARDS IDENTIFICATION

### **General Hazards**

This material is considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 5
Acute toxicity - Dermal	Category 5
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

**GHS Label elements, including precautionary statements**

**Signal Word: Warning****Hazard Statements**

H332 - Harmful if inhaled  
H303 - May be harmful if swallowed  
H313 - May be harmful in contact with skin  
H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements****Precautionary Statements - Prevention**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment

**Precautionary Statements - Response**

P312 - Call a POISON CENTER or doctor if you feel unwell

**IF INHALED**

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  
P391 - Collect spillage

**Precautionary Statements - Disposal**

P501 - Dispose of contents/container according to label directions

**Other Information****Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/preparation Mixture

**Hazardous Components**

Chemical name	CAS-No	Weight %
Diflufenican	83164-33-4	43.7
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt	9084-06-4	1-2
Phosphoric acid	7664-38-2	0.1-1

Synonyms are provided in Section 1.

**Section 4: FIRST AID MEASURES****FIRST AID MEASURES****General Advice**

Do not induce vomiting or give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Bring the SDS, product label and package insert when seeking medical assistance.

<b>Eye Contact</b>	Hold eyes open and rinse slowly and gently with water for 15 to 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.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a poison control center or doctor for further treatment advice.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
<b>Protection of first-aiders</b>	Avoid contact by using personal protective equipment. See Section 8 for more detail.

**Most important symptoms and effects, both acute and delayed**

<b>Most important symptoms and effects, both acute and delayed</b>	May cause slight transient irritation at point of contact.
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**Indication of any immediate medical attention and special treatment needed**

<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically.
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**Section 5: FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.

**Unsuitable extinguishing media**

Do not spread material with high pressure water streams.

**Specific extinguishing methods**

Evacuate area and fight fire from a safe distance. Very toxic to aquatic life with long lasting effects. Dike to prevent runoff.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

Carbon oxides (CO<sub>x</sub>). Nitrogen oxides (NO<sub>x</sub>). Halogenated compounds.

**Explosive properties**

**Sensitivity to Mechanical Impact** Not sensitive.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

<b>Personal Precautions</b>	Ensure adequate ventilation.
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**Environmental Precautions**

<b>Environmental Precautions</b>	Prevention of fire and explosion.
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**C. 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.

**Section 7: HANDLING AND STORAGE****Precautions for Safe Handling**

**Handling** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Hygiene measures** Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**Conditions for safe storage, including any incompatibilities**

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

**Incompatible products** Strong oxidizing agents.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Hazardous Components**

Chemical name	Brazil	Chile	Argentina	Venezuela	Mexico	ACGIH TLV
Phosphoric acid 7664-38-2	TWA: 1 mg/m <sup>3</sup>		TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	Mexico: TWA 1 mg/m <sup>3</sup> Mexico: STEL 3 mg/m <sup>3</sup>	STEL 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** For dust, splash, mist or spray exposure, wear chemical protective goggles.

**Skin and Body Protection** Wear suitable protective clothing. Protective shoes or boots.

**Hand Protection** Protective gloves

**Respiratory Protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Hygiene measures** Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**General information** These recommendations apply to the product as supplied. If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** Liquid  
**Appearance** Opaque White Liquid  
**Odor** Odorless  
**Color** White

Odor threshold	No information available
pH	6.5-6.7 (1% solution)
Melting point/freezing point	159.5 °C
Boiling Point/Range	Decomposes 304.6 °C
Flash point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	No data available
Solubility in other solvents	No information available
Surface tension	No data available
Partition coefficient	No information available
Autoignition temperature	Not flammable >400 °C
Decomposition temperature	304 °C
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Corrosivity	No information available
Oxidizing properties	Non-oxidizing
Softening point	No information available
Molecular weight	No data available
VOC content (%)	No information available
Relative density	1.18 g/mL @ 20 °C
Bulk density	No information available

## Section 10: STABILITY AND REACTIVITY

### Reactivity

#### Chemical Stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Hazardous polymerization

Hazardous polymerization does not occur.

#### Conditions to avoid

Heat, flames and sparks.

#### Incompatible materials

Strong oxidizing agents.

#### Hazardous Decomposition Products

Carbon oxides (COx). Nitrogen oxides (NOx). Halogenated compounds.

## Section 11: TOXICOLOGICAL INFORMATION

### Product Information

LD50 Oral > 2500 mg/kg (rat)

LD50 Dermal > 4000 mg/kg (rat)

LC50 Inhalation (dust) > 1.73 mg/L 4 hr (rat)

### Information on likely routes of exposure

Inhalation: There are no data available for this product

**Eye Contact:** May cause slight irritation

**Skin Contact:** May cause slight irritation

**Ingestion:** There are no data available for this product

**Information on toxicological effects**

**Symptoms:** May cause slight transient irritation at point of contact.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation:** Slightly or non-irritating (rabbit)

**Serious eye damage/eye irritation:** Slight irritation (rabbit)

**Sensitization:** Not a skin sensitizer

**Mutagenicity:** The results of in-vitro tests with diflufenican are not clear (5 studies). In vivo tests did not show mutagenic effects (Method OECD 475)

**Carcinogenicity:** Diflufenican: Did not show carcinogenic effects in animal experiments (Method: OECD 453)

**Reproductive toxicity:** Diflufenican: There was no evidence of reproductive toxicity in the absence of maternal toxicity

**Developmental toxicity:** Diflufenican: There was no evidence of developmental toxicity in the absence of maternal toxicity

**Chronic toxicity:** Diflufenican: NOEL 8-8.7 mg/kg Method OECD 408

**Target organ effects:** Liver

**Neurological effects:** Diflufenican: Not neurotoxic.

**Aspiration hazard:** The product does not present an aspiration pneumonia hazard.

## Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

**Ecotoxicity**

Duration	Species	Value	Units
96 h LC50	Fish	> 0.099	mg/L
35 d EC50	Fish	> 0.015	mg/L
48 h EC50	Daphnia	> 0.24	mg/L
21 d NOEC	Daphnia	0.052	mg/L
72 h EC50	Algae	0.00025	mg/L
14-day LC50	Earthworm	> 500	mg/kg
48-h LD50 contact	Bee	> 100	µg/bee

**Persistence and degradability:** No information available.

**Bioaccumulation:** No information available.

**Mobility:** No information available.

**Other Adverse Effects:** See product label for additional application instructions relating to environmental precautions

## Section 13: DISPOSAL CONSIDERATIONS

**Waste disposal methods**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated containers and packages**

Containers must be disposed of in accordance with local regulations. Refer to the product label for container disposal instructions. Do not reuse this container for any other purpose.

## Section 14: TRANSPORT INFORMATION

**IMDG/IMO:**

<b>UN/ID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.(Diflufenican)
<b>Hazard class</b>	9
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	Yes

**ICAO:**

<b>UN/ID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.(Diflufenican)
<b>Hazard class</b>	9
<b>Packing Group</b>	III

**ICAO/IATA:**

<b>UN/ID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.(Diflufenican)
<b>Hazard class</b>	9
<b>Packing Group</b>	III

## Section 15: REGULATORY INFORMATION

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Diflufenican 83164-33-4								X
Propylene glycol 57-55-6	X	X	X	X	X	X	X	X
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt 9084-06-4	X	X		X	X	X	X	X
Phosphoric acid 7664-38-2	X	X	X	X	X	X	X	X

## Section 16: OTHER INFORMATION

**Revision date:** 2021-03-18

**Revision note** Emergency telephone number

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