

SAFETY DATA SHEET			Hoja 1 de 4
Product name:		Revisión	Fecha
<b>NIC-SAR</b>		1.1	20-10-10

### **Section 1. Identification of the Substance/Preparation and of the Company/Undertaking**

**Product Name:** NIC-SAR

**Chemical Name of Active Ingredient:**

(ISO) NICOSULFURON 4%

2-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-*N,N*-dimethylnicotinamide; 1-(4,6-dimethoxypyrimidin-2-yl)-3-(3-dimethylcarbamoyl-2-

pyridylsulfonyl)urea(IUPAC)

2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-*N,N*-dimethyl-3-pyridinecarboxamide (CAS)

**Chemical Formula of Active Ingredient:**

C<sub>15</sub>H<sub>18</sub>N<sub>6</sub>O<sub>6</sub>S

**CAS Registry Number of Active Ingredient:**

111991-09-4 (CAS);

**Product Use:** Agriculture Herbicide

**EXCLUSIVAS SARABIA S.A.**

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### **Section 2. Hazards Identification**

Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

### **Section 3. Composition/Information on Ingredients**

Component	CAS Number	EEC No.	Symbol	R Phrase	Content
Nicosulfuron	111991-09-4		<b>N</b>	<b>50/53</b>	<b>40 g/L</b>
Sulfonated aromatic polymer, sodiumsalt			<b>Xi</b>	<b>R36/38</b>	<b>&lt;0.1%</b>
Sodium dioctyl sulphosuccinate	<b>577-11-7</b>	<b>209-406-4</b>	<b>Xi</b>	<b>R38/r41</b>	<b>&lt;0.05%</b>

### **Section 4. First Aid Measures**

**Eye Contact:** Flush with running water for at least 15 minutes while holding eyelids open to help flush out material. Get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes immediately. Wash thoroughly with soap and water. Get medical attention.

**Inhalation:** Move to fresh air. Consult a physician.

**Ingestion:** Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Consult a physician.

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**Section 5. Fire Fighting Measures**

**Fire and Explosive Hazard:** Negligible fire and explosion hazard.

**Firefighting Media:** Water fog or foam, CO<sub>2</sub> to extinguish fire.

**Firefighting Precaution:** In the event of fire, wear self-contained breathing apparatus.

**Section 6. Accidental Release Measures**

**Personal precautions:** Wear personal protective equipment.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

**Methods for cleaning up:** Clean up promptly by scoop or approved industrial vacuum. Shovel into suitable container for disposal.

**Section 7. Handling and Storage**

**Handling Precautions:** Avoid getting in eyes, on skin or clothing. Remove contaminated clothing immediately. Wash thoroughly after handling

**Storage Precautions:** Store in a cool, dry area. Keep out of reach of children. Do not contaminate water, food, or feed by storage or disposal. Keep from contact with fertilizers, insecticides, fungicides, and seeds during storage.

**Section 8. Exposure Controls/Personal Protection**

**Engineering Controls:** Ensure good ventilation in confined space.

**Eye/Face:** To protect against accidental eye contact, goggles/face-shield should be worn.

**Hand Protection:** Rubber gloves should be worn.

**Skin Protection:** Light protective clothes should be worn. Wash thoroughly with soap and water after handling.

**Respiratory Protection:** Ensure good ventilation. Wear half-mask.

**Section 9. Physical and Chemical Properties**

**Appearance** Grayish beige viscous liquid

**Odor** Specific odor

**Specific Gravity** 0.956

**Water Solubility** Disperse in water

**Section 10. Stability and Reactivity**

**Stability:** Stable under normal handling and storage conditions.

**Incompatibilities:** Avoid mixed with highly reactive chemicals such as strong acid, strong base or strong oxidizing agent.

**Hazard Decomposition:** Thermal decomposition products contain oxides of carbon, oxides of nitrogen, hydrochloride.

**Hazard Polymerization:** Will not occur.

**Section 11. Toxicological Information**

**Acute Oral Toxicity:** LD<sub>50</sub> for rats >5000mg/kg

**Acute Dermal Toxicity:** LD<sub>50</sub> for rats >5050 mg/kg

**Acute Inhalation Toxicity:** LC<sub>50</sub> for rats > 2.15 mg/L

**Skin Irritation:** No irritating to skin of rabbits.

**Eye Irritation:** No irritating to eyes of rabbits.

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### **Section 12. Ecological Information**

Referenced technical active ingredient ecological information list as below:

**Birds** Dietary oral LD50 for bobwhite quail >2250 mg/kg. Dietary LC50 for mallard ducks and bobwhite quail >5620 ppm.

**Fish** LC50 (96 h) for bluegill sunfish and rainbow trout >1000 mg/l.  
Daphnia LC50 (48 h) >1000 mg/l. Algae NOEC (96 h) for green algae 100 mg/l

**Bee** LD50 (contact) >20ug/bee; dietary LC50 (48 h) >1000 ppm. NOEC 500 ppm

#### **Environmental Fate:**

**Animals** In goats, following a dose of 60 ppm, <0.1 ppm was found in tissues and milk; therefore nicosulfuron and its metabolites do not bioaccumulate. Hydrolysis of the sulfonylurea bridge and hydroxylation were the main metabolic pathways.

**Plants** Degraded rapidly in maize, DT50 1.5-4.5 d. Residues <0.02 ppm in all crops. Hydrolysis of the sulfonylurea bridge to form the pyridine sulfonamide and pyrimidine amine, and hydroxylation on the pyrimidine ring, were the main metabolic pathways.

#### **Soil/Environment**

Soil DT50 (aerobic) 26 d (pH 6.1, 5.1% o.m., 25 °C) . In four sandy loams, Kd (25 °C) 0.16 (pH 6.6, 1.1% o.m.) to 1.73 (pH 5.4, 4.3% o.m.). Photolysis DT50 (soil) 60-67 d; (water) 14-19 d (pH 5), 200-250 d (pH 7), 180-200 d (pH 9). Values from separate studies were: Soil DT50 24-43 d (20 °C); DT90 80-143 d (20 °C). Kd 0.0 5-0.7. In water, DT50 15 d (pH 5, 20 °C)

### **Section 13. Disposal Considerations**

Disposal of product would be treated, stored, transported, and disposed of according to the local waste regulation. Do not flush to surface water or sanitary sewer system.

### **Section 14. Transport Information**

#### **IMO/IATA/ADR Classification:**

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.

Contains: Nicosulfuron 40g/L OD

**Class:** 9

**UN No.:** 3082

**Packaging Group** III  
(Marine Pollutant)

### **Section 15. Regulatory Information**

#### **European/International Regulation:**

Hazard Symbols:

N Dangerous to environment.

Risk Phrases:

R51/53 Toxic to aquatic organisms and may cause long-term adverse

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effects in the aquatic environment.

**Safety Phrases:**

S 1/2 Keep locked up and keep out of reach of children.

S 13 Keep away from food, drink and animal feeding stuffs.

S20/21 When using, do not eat, drink or smoke.

S 60 This material and/ or container must be disposed of as hazardous waste.

**Section 16. Other Information**

Disclaimer: The information provided by Rotam Agrochemical Co., Ltd contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.