

Jorge N.F. Peisajovich Galante

NES®

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Certified by



MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product name: NES funguicida and acaricide

Synonyms: None

Application: Organic agriculture

Agro servicio sNES

Distribute by

Jorge Peisajovich Galante

Zamora N° 3-Coatepec

Estado de Veracruz-CP 91500

Phone: 0052 2288 161451 Fax 165082

Preparation date of MSDS 18/05/2006

Telephone number of preparer 0052 2288 241823

24 hours Emergency Telephone number: alls of above

2. Chemical and Physical Properties

Physical state: Liquid

Color: Red dark

Odor: Faint rotten eggs

pH: 10:45

Density: 1.19

Boiling point 103 °C

% Volatile by Volume: Not available

Evaporation Rate: Not available

Test	Method	Results
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Assay of active ingredient Sulfur :	Volumetric	13.68 % w/w 14.91 %w/v
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Low temperature stability	Test	Method	Results
CIPAC MT 39	Suspensibility	CIPAC MT 168	101.72 % w/w

Test	Method	Results
Alkalinity	CIPAC MT 31	Alkalinity (average): 3.5 % w/w calculated as NaOH
Test	Method	Results
pH	EPA OPPTS 830.7000 CIPAC MT 75	10.2 at 23 °C
Flash point	CIPAC MT 12 Closed Cup	Non flammable below 103°C, temperature at which the sample boils.

Test	Method	Results	
		Time	Volume of foam (ml)
Persistent foaming	CIPAC MT 47	10sec	0
		1min	0
		3min	0
		12min	0

Test	Methodology	Results
Viscosity	OECD 114	2.71 cP (24 °C)

Test	Method	Results		
Corrosivity	ASTM G-31-72	<i>Material</i>	<i>Test N°1</i>	<i>Test N°2</i>
		<i>Aluminum</i>	<i>Slightly corrosive</i>	<i>Non corrosive</i>
		<i>Zinc</i>	<i>Non corrosive</i>	<i>Slightly corrosive</i>
		<i>Copper</i>	<i>Totally corrosive</i>	<i>Slightly corrosive</i>
		<i>Polyethylene</i>	<i>Non corrosive</i>	<i>Non corrosive</i>

	Test	Method	Results	
			Room conditions determination	Accelerated conditions determination
Stability study CIPAC MT 46	Assay of active ingredient	Volumetric	13.68 % w/w 14.91 % w/v	13.37% w/w 14.87 % w/v
	Density	EPA OPPTS 830.7300 OECD 109 CIPAC MT 3 – Pyknometer method – Procedure for liquids	1.090 g/ml at 25 °C	1.112 g/ml at 25 °C
	Suspensibility	CIPAC MT 168	103.98 % w/w	103.97 % w/w

Solubility in water :Totally miscible

3. Composition

Análisis of **NES**

Parameters	CAS N	Methodology of analysis	Unity	LCM	Obtained value
pH		SM -4500 -H+ -B	upH	0,01	10,9
CONDUCTIVITY	—	SM -2510 -B	Sin	0,1	252414,3
NITROGEN TOTAL	7727-37-9	SM-4500-N	mg/L	5,0	<5,0
CALCIUM	7778 -54 -3	SM -3500/3111 -B	mg/L	5,0	35240,0
MAGNESIUM	7439 .95 4	SM -3500/3111 -B	mg/L	5,0	6,3
SODIUM	7778 -54 -3	SM -3500/3111 -B	mg/L	5,0	61,8
POTASIUM	7784 -41 -0	SM -3500/3111 -B	mg/L	5,0	80,5
FOSFORO(P205)	7723 -14 -0	SM -4500 -P -C	mg/L	1,0	1445,7
FERRUM	77536 -66 -4	SM -3500/3111 -B	mg/L	2,0	1,2
CUPRUM	7440 -50 -8	SM -3500/3111 -B	mg/L	2,0	0,9
CINC	7440 -66 -6	SM -3500/3111 -B	mg/L	0,5	1,3
MANGANESO	7439 -96 -5	SM -3500/3111 -B	mg/L	2,0	0,3
SULPHUR		SM -4140 -B	%	15	13,5

REFERENCES

CAS: Chemical Abstract Service Registry number

ND: No detección de los parámetros investigados (Compuestos target, presentados en Anexo), por sobre el límite de cuantificación

LCM : Límite de Cuantificación del Método, registrado como < (menor de)

Value of pH with different dilutions in distilled water

Parameters	MI	Methodology	Unity	LCM	Obtained Value
	Dosificados				
pH	0	0 SM-4500 H+	UpH	0,01	10,9
pH	20	0 SM-4500 H+	UpH	0,01	11,03
pH	40	0 SM-4500 H+	UpH	0,01	11,05
pH	60	0 SM-4500 H+	UpH	0,01	11,07
pH	80	0 SM-4500 H+	UpH	0,01	11,06
pH	100	0 SM-4500 H+	UpH	0,01	11,06
pH	120	0 SM-4500 H+	UpH	0,01	11,04
pH	140	0 SM-4500 H+	UpH	0,01	11,03
pH	160	0 SM-4500 H+	UpH	0,01	11,02
pH	180	0 SM-4500 H+	UpH	0,01	10,99
pH	200	0 SM-4500 H+	UpH	0,01	10,98

4. Ld50s Route & Species

LD50	Route	Specie
> 1900 mg/Kg	Oral	Sprague Dawley rats
> 2000 mg/Kg	Dermal	
> 824 mg/Liter	Acute Inhalation	

5. Hazards Identifications

Eye contacts: May cause irritation **Skin contact:** Not cause irritation **Inhalation:** Not cause irritation

5. First Aid Measures

Eye contacts: Flush eyes with gently flowing water for at least 15 minutes, while holding the eyelids open. Seek immediately medical assistance.

Ingestion: Seek immediately medical attention. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Ingestion of 100 ml. of red wine could help to lower pH into stomach.

6. Accidental Release Measures

Personal Precautionary Measures: Wear full protective gear

Environmental Precautionary Measures: Prevent entry into sewers or stream, dike if needed. Consult local authorities

Procedure of clean up: Flush area with water to remove trace of residues.

7. Handling

Handling: Handling and open container with care. Protect against physical damage. Avoid contact with eyes and mouth. Use appropriate personal protective equipment. Wash thoroughly after handling.

8. Storage

Storage: Store in well ventilated area. Store in accordance with good industrial practices. Place away from incompatible materials.

9. Exposure Controls/Personal Protection

Engineering controls: A well ventilated area to control dust levels.

Gloves: Appropriate chemical resistance gloves should be worn.

Eyes: Safety glasses with side shields or chemical goggles.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station.

10. Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Flammable: No

Explosive: No

11. Toxicological Information

Principle Route of exposure

Ingestion: Swallowing large amount may cause nausea and vomiting.

Eye contact: May cause irritation.

Carcinogenicity: Not listed

Ingredients	IARC - Carcinogens	ACGIH-Carcinogens
Sulfur	Not listed	Not listed

12. Ecological Information

Calcium Sulphate	Not listed	Not listed
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Other Information: Not additional remarks

Ecotoxicological Information

Ingredients	Ecotoxicity-Fish species Data	Acute Crustacean toxicity	Ecotoxicity-Freshwater Alga Data
Sulfur	Not available	Not available	Not available
Calcium - sulphate	Not available	Not available	Not available

Other Information: Not additional remark

13. Disposal Considerations

Disposal and Waste Methods: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. Regulatory Information

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or Exempt.

U.S Regulatory Rules

Ingredients	CERCLA/SARA-Section 302:	SARA(311,312) Hazard Class:	CERCLA/SARA-Section 313:
Sulfur	Not listed	Not listed	Not listed
Calcium Sulphate	Not listed	Not listed	Not listed

15. Disclaimer

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