

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

SIPGRAN

Date of Preparation	27/07/2015
Date of Issue	27/07/2015
MSDS No	FORM_MSDS_R&D_222_00
Renewal Date/No	

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PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

1. MATERIAL/PREPARATION AND COMPANY/OWNER IDENTIFICATION:

1.1 Material/Preparation Identification:

Product Name : SIPGRAN

Product Content :

Sodium o-nitrophenolate : 8 g/L

Sodium p-nitrophenolate : 12 g/L

Sodium 5-nitroguaiacolate : 4 g/L

1.2 Usage of the Material/Preparation:

Plant Growth Regulators

1.3 Company Identification:

2. Manufacturing and License Holding Company:

Company Name: AGRİ SCIENCES TARIM VE İLAÇÜR. SAN. TİC. LTD. ŞTİ.

Address : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR

Telephone : +90 0232 864 13 33

Fax : +900232 864 16 79

1.4 Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33.

2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Substance	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
Sodium o-nitrophenolate	8	824-39-5	212-527-5	Xi	R20/21/22	Xi; R20/21/22
Sodium p-nitrophenolate	12	824-78-2	212-536-4	Xi	R20/21/22	
Sodium 5-nitroguaiacolate	4	67233-85-6	-	Xi	R20/21/22	
Others	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

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3. HAZARD IDENTIFICATION:



Xi:Irritant

R 20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

4. FIRST AID MEASURES

In the event of touch with skin, take off the clothes contaminated with pesticide. In case of contacting with eyes, wash with plenty of water. Wash the skin with plenty of water. If pesticide is swallowed, call doctor or take the patient to a doctor with package or label of pesticide, do not puke.

5. FIRE FIGHTING MEASURES

Personal Protective Equipment for Fire-fighting: Do not inhale the fumes occurred during the explosion and fire. If available, use self-contained respiratory device during the fire.

Fire extinguishing appliance: Product is not flammable. Take precaution for environmental deflagration.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Please use the personal protection equipment defined under Section 8.

Personal Precautions: Do not touch spilled product or contaminated surfaces. Do not eat, drink or smoke while handling spilled product.

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Spill Clean-up Procedure: Collect the product with a liquid retaining material (e.g. sand, sawdust, chemical binders). Place the product into tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations.

Additional Measures: Look section 7 for safe use, section 8 for personal protective equipment. Look section 13 for disposal.

7. HANDLING AND STORAGE

Handling : Please use the personal protection equipment specified under Section 8. Do not eat or drink while handling the product. Avoid contact with the mouth, the skin or the eyes. Do not inhale the product. After handling the product thoroughly you're your hands. When handling closed containers no additional safety precautions other than the specified ones are needed. Only handle the product in rooms with a local suction device.

Storage : Please store the product in its original container, in a cool, dry and well-ventilated place. Keep away from food, drink and animal feed items. Protect from exposure to direct sunlight. Protect against freezing. Keep the product away from the reach of children.

Storage Temperature: 0-30 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Precautions: Ensure appropriate general or local ventilation to keep the product concentration under allowed limits.

Personal Protection Equipment:

Eye: Use eye protection equipment compliant with EN 166.

Skin: Use protective clothing and appropriate gloves. Use 2 layers of clothing, if possible. Use CE marked Nitrile Rubber (min. 0.40 mm thick). Contaminated gloves should be washed. Any gloves that cannot be cleaned inside and outside should be disposed.

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Respiratory Protection: Use respiratory apparatuses compliant with EN 149:2001. Any respiratory protection apparatus should only be used for short term operations, as a part of risk minimization measures, e.g. in case of local ventilation. Comply with operation instructions and warnings of the manufacturer during use of respiratory protection apparatuses.

Good Hygiene Conditions: Do not eat, drink or smoke while handling the product. Make sure to wash your hands each time before eating, drinking, smoking or going to the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid, clear
Colour : Red-brown
Density : 1,00 gr / cm³
pH : 7-9 (20⁰C)
Flash point : Not flammable

10. STABILITY AND REACTIVITY

Conditions to avoid: Extreme temperatures and exposure to direct sunlight

Materials to avoid : -

Hazardous reactions: When stored and handled appropriately no hazardous reactions are observed.

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11. TOXICOLOGICAL INFORMATION

Sodium 5-nitroguaiacolate Technical Article:

Acute Oral LD50 mice 716 mg/kg.

Skin and eye Acute percutaneous LD50 for male and female rats >2000 mg/kg.

Toxicity Class :WHO (a.i.) II (firm classification); EPA (formulation) III

Sodium o-nitrophenolate Technical Article:

Acute Oral LD50 mice 960 mg/kg.

Skin and eye Acute percutaneous LD50 for male and female rats >2000 mg/kg.

Toxicity Class :WHO (a.i.) II (firm classification); EPA (formulation) II

Sodium p-nitrophenolate Technical Article:

Acute Oral LD50 mice 345 mg/kg.

Skin and eye Acute percutaneous LD50 for male and female rats >2000 mg/kg.

Toxicity Class :WHO (a.i.) II (firm classification); EPA (formulation) II

12. ECOLOGICAL INFORMATION

Sodium 5-nitroguaiacolate Technical Article:

Birds Acute oral LD50 bobwhite quail 2067 mg/kg

Fish LC50 (96 h) rainbow trout 37 mg/l.

Bees Acute LD50 honey bee >100 µg/bee.

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Sodium o-nitrophenolate Technical Article:

Birds Acute oral LD50 bobwhite quail 1046 mg/kg.

Fish LC₅₀ (96 h) rainbow trout 69 mg/l.

Bees LD₅₀ honey bee >100 µg/bee.

Sodium p-nitrophenolate Technical Article:

Birds Acute oral LD50 bobwhite quail >2000 mg/kg.

Fish LC₅₀ (96 h) rainbow trout 25 mg/l.

Bees LD₅₀ honey bee > 111 µg/bee.

13. DISPOSAL CONSIDERATIONS

Product: Do not dispose product waste together with household wastes. Waste residue should not be spilled into wastewater canals. Any product wastes should be disposed of in compliance with Hazardous Wastes Control Regulations.

Contaminated Materials: Empty containers should not be used for other products. Completely emptied and rinsed containers should be disposed in compliance with regulations. Non-clearable containers should be disposed of as hazardous materials.

14. TRANSPORTATION INFORMATION

Outside classification due to absence of hazardous material in terms of transportation.

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15. REGULATORY INFORMATION

Hazard Marks and Symbols:



Xi: Irritant

Hazardous Materials Listed on the Label

Contains Sodium o-nitrophenolate, Sodium p-nitrophenolate ve Sodium 5-nitroguaiacolate

Risk Phrases:

Physicochemical-

Health:

R 20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

Environment

Safety Phrases:

S 2 - Keep out of the reach of children

S 13 - Keep away from food, drink and animal feedingstuffs

S 36/37 - Wear suitable protective clothing and gloves.

S 46 - If swallowed, seek medical advice immediately and show this container or label

Important Labelling:

Follow instructions to avoid personal and environmental risks.

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16. OTHER INFORMATION

Xi: Irritant

All Risk Phrases under Section 2:

R 20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

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Prepared By : Remzican KARAN

This material safety data sheet is provided as a supplement to instructions of manufacturer; however it does not replace instructions of manufacturer. The information provided in this sheet only conforms to the regulatory criteria known at the time of the preparation of Safety Data Sheet. Required data are gathered in accord with "Regulation on Preparation and Distribution of Safety Data Sheets about Hazardous Materials and preparations (O.G. issue no 27092 dated 26/12/2008). Concerned organizations and persons are invited to comply with the abovementioned regulation.