

MATERIAL SAFETY DATA SHEET- ARYSTA LIFESCIENCE S.A.S.-

Commercial name	: ATONIK	Updating	: 05/09/2006
Version N°	: 7	Creation date	: 23/11/04 SG
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1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product label name : ATONIK

Product Use : **Phytostimulant**

Supplier : Arysta LifeScience S.A.S
BP 80
Route d'Artix
64150 NOGUERES - France

Tel: 33 5 59 60 92 92
Fax: 33 5 59 60 92 99
Web site: <http://www.arystalifescience.com/>

Emergency
telephone n°

Toxico vigilance +33 (0) 5 59 60 92 25 (business hours)
Transport accident +33 (0) 5 59 60 92 27 (business hours)
Treatment center for poisoning cases PARIS +33 (0) 1 40 05 48 48

2 - COMPOSITION/INFORMATION ON INGREDIENTS

Formulation type Soluble Concentrate (SL)

Substance	g/L	% w/w	N°CAS	N° EINECS
Sodium para-nitrophenolate	3	0.3	824-78-2	-
Sodium ortho-nitrophenolate	2	0.2	824-39-5	-
Sodium 5-nitroguaiacolate	1	0.1	67233-85-6	-

3 - HAZARDS IDENTIFICATION

Classification

According to the WHO guidelines: **Class III**, Slightly hazardous

R phrases

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4 – FIRST AID

First aid in general	Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from chilling. Do not administer anything by oral route and do not try to make vomit, call a treatment center for poisoning cases or a doctor. Take the label where possible.
First aid after inhalation	Immediately remove to fresh air. Call a doctor immediately.
First aid after eye contact	Rinse immediately and thoroughly with plenty of water during at least 10 to 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if pain or redness persists.
First aid after skin contact	Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.
First aid after ingestion	Call a doctor immediately and show the label. Do not induce vomiting.
Medical instructions	Treat symptomatically.

5 – FIRE-FIGHTING MEASURES

Extinguishing means	Water spray, foam, carbon dioxide, dry chemical powder.
Unsuitable extinguishing means	Water jet.
Special exposure hazards	By thermal decomposition, possibility of formation of toxic gases (nitrogen oxide, carbon oxide)
Particular protective measures	Intervention personnel should wear mask and individual respiratory equipment. Retain water or extinguishing media and eliminate safely.

6 – ACCIDENTAL RELEASE MEASURES

Personal protection	Wear appropriate protective clothes, gloves and glasses.
Environmental protection	Retain spilled liquids and collect them with sand or other absorbent inert material (sepiolite). Absorbent inert material stocks have to be sufficient to face reasonably predictable spillage. Keep sewers from potential spillage to minimize pollution hazards. Do not throw washing waters into sewers. Contact competent authorities when a situation cannot be controlled rapidly and efficiently. In the case of spillage into water, stop dispersion of the product with adequate barrier.
Methods for cleaning up	Collect contaminated products on the surface concerned, transfer to closed drums before sending in a specialized incineration

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Wash the contaminated surface with water and collect washing waters for treatment.
Cover the contaminated zone using absorbent materials such as sand or sepiolite.

Particular points

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7 - HANDLING AND STORAGE

Handling

Do not eat, drink or smoke when using.
Wear appropriate protective clothes, adequate gloves, glasses or masks.
Avoid prolonged or frequent contact of skin with new or old product.
Respect good hygienic body conditions and cleanliness of the working area.
Wash hands abundantly after handling.
Do not wash working clothes with household linen.

Storage requirements

Store under cover, in an appropriate room, away from heat and sources of fire at temperature $<35^{\circ}\text{C}$.
Store under cover, in an appropriate room, where the temperature is upper than -5°C .
Keep away from food, drink and animal feedingstuffs.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

General measures

When using refer in priority to information written on the label.

Exposure limits

Not determined.

Personal protection

Respiratory

Preferably wear a mask covering all face with filter appropriate to organic vapour and aerosol. A.P. Type filters.

Hand

Wear single-use gloves, resistant to organic solvents.

Eye

Preferably wear a face screen or protective glasses.

Skin

Wear appropriate, and if possible disposable, clothes.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Brown yellow liquid

Odour

No specific odour

pH

8.36

Boiling point/range

NA

Flash point

NA

Flammability

NA

Density

1.00

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Explosive hazards

Almost none when stored in the conditions described in Point 7.
Real hazard in the case of fire or accumulation of vapour.

Solubility

- in water

Miscible with water in all proportions.

- in organic solvents

Not miscible with almost all organic solvents.

10 – STABILITY AND REACTIVITY

Conditions to avoid

Avoid storage at temperature > 35°C in a confined place.

Materials to avoid

Avoid contact with strong oxidant and strong acids and basis.

Hazardous decomposition products

See point 5.

11 - TOXICOLOGICAL INFORMATION

Acute Oral Toxicity

LD50 > 2000 mg/kg bw

(Atonik)

Acute Dermal Toxicity

LD50 > 2000 mg/kg bw

(Atonik)

Inhalation Toxicity

LD50 > 6.7 mg/L

(Atonik)

Skin irritation

Not irritant

(Atonik)

Eye irritation

Not irritant

(Atonik)

Skin sensitization

Sensitizing

(Atonik)

12 – ECOLOGICAL INFORMATION

Environmental behaviour

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Toxicity to aquatic organisms

LC50 (*Cyprinus carpio*) > 6800 mg/L

(Atonik)

EC50 (*Daphnia magna*) = 2000 mg/L

EC50 (*Scenedesmus subspicatus*) > 100 mg/L

Toxicity to birds

LD50 (Northern bobwhite) > 2000 mg/kg bw (p-NP)

LD50 (Northern bobwhite) = 1046 mg/kg bw (o-NP)

LD50 (Northern bobwhite) = 2067 mg/kg bw (5-NG)

Toxicity to bees

Contact LD50 = 111 µg/bee (p-NP)

Contact LD50 > 100 µg/bee (o-NP)

Contact LD50 > 100 µg/bee (5-NG)

Oral LD50 = 61.2 µg/bee (p-NP)

Oral LD50 = 123.2 µg/bee (o-NP)

Oral LD50 = 131.6 µg/bee (5-NG)

Other information

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Product / Packaging

Disposal of important amounts must be made by duly authorized specialists.

Incineration should be made in authorized and specialized plant. Eliminate the product and its packaging with care and in a responsible way. Do not throw near ponds, rivers, ditches or into sewers. Wash contaminated surfaces with water and collect washing waters for treatment.

Discharges can be neutralized in acid media or with soda before sending to a specialized incineration treatment center.

Make sure that local regulations are respected.

Washing products

Do not throw into sewer. Do not contaminate natural waters. Clean up application materials on the treated area and eliminate waters by spraying on one area.

14 – TRANSPORT INFORMATION

NOT CLASSIFIED FOR TRANSPORT

15 – REGULATORY INFORMATION

Classification	According to the WHO guidelines: Class III , slightly hazardous
Risk phrase(s)	/
Safety phrase(s)	S1/2: Keep locked up and out of reach of children. S3/9/49: Keep only in the original container in a cool, well-ventilated place. S13: Keep away from food, drink and animal feeding stuffs. S20/21: When using do not eat, drink or smoke. S23: Do not breathe spray. S24/25: Avoid contact with skin and eyes. S29: Do not empty into drains. S36/37/38: Wear suitable protective clothing, gloves and face protection. S46: If swallowed, seek medical advice immediately and show this container or label. S51: Use only in well-ventilated areas. S60: This material and its container must be disposed of as hazardous waste.

16 – OTHER INFORMATION

This MSDS completes technical use sheets but does not replace them. Information herein is based on our present knowledge concerning the product, at the edition date. It is honestly given.

The attention of users is drawn to potential risks taken when the product is used for other uses than those for which it is made.

The user has to know and comply with all regulations concerning its activity.

It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

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The aim of all the regulations mentioned is to help the person concerned to comply with the rules which are his own responsibility. This listing cannot be considered as exhaustive. The person concerned has to make sure that he has no other obligations due to texts specific to particular applications.