	<u>Safety Data Sheet</u>	Page 1 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPUR-0065

1. Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier : Product name: ECO NITRATE
Range: Alternazote
- 1.2. Relevant identified uses of the substance or mixture and uses advised against : Fertiliser
Agriculture: fertilisation
- 1.3. Details of the supplier of the safety data sheet : Company: BIO3G
Address:
SAS BIO3G – 7 rue du Bourg Neuf - 22 230 Merdrignac
BIO3G SWITZERLAND - Rue Alexandre Cailler, 4 - 1636 Broc
BIO3G Belgium - Avenue des arts, 8 - 1210 Saint Josse Ten Noode
Telephone: +33 (0)296674141
Fax: +33 (0)296674200
Email: contact@bio3g.fr
- 1.4 Emergency telephone number: : INRS/ORFILA: +33 (0)1 45 42 59 59 <http://www.centres-antipoison.net>.
BIO3G: +33 (0)2 96 67 41 41

2. Hazard identification


- 2.1. Classification of the substance or mixture : **In accordance with 67/548/EEC and 1999/45/EC directives, as well as their adaptations.**

This mixture does not present any physical hazards. See recommendations regarding other products present in the premises.

This mixture does not present any health hazards, excluding possible occupational exposure levels (see sections 3 and 8).

This mixture does not present any environmental hazards. No harm to the environment is currently known or can be foreseen in normal operating conditions.
- 2.2. Label elements : **In accordance with 67/548/EEC and 1999/45/EC directives, as well as their adaptations.**

No labelling is required for this mixture.
S2: Keep out of reach from children.
S13: Keep away from food and drink, including that for animals.
Safety data sheet available upon request for professionals.
- 2.3. Other hazards : The mixture does not contain any Substances of Very High Concern (SVHC), as published by the European Chemicals Agency (ECHA) in accordance with article 57 of the REACH regulation:

	<u>Safety Data Sheet</u>	Page 2 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPUR-0065

<http://echa.europa.eu/fr/candidate-list-table>

The mixture does not meet the criteria applicable to PBT or vPvB mixtures, in accordance with Appendix XIII of REACH regulation (EC) no. 1907/2006.

3. Composition/Information on the ingredients:

3.2 Mixtures

Ingredients contributing to the hazards

Name of the ingredient	CAS no.	EC no.	Index no.	REACH no.	Classification	Content
C11-C14, iso, C13-rich and ethoxylate alcohols	78330-21-9				Xn, R22 (Xi); R41 Acute Tox. 4, H302 Eye Irrit. 2, H319	$1 \leq x < 2.5$

Information on the ingredients: : There is no other substance that - according to our suppliers' current knowledge - is classified or contributes to product classification, and thus that should be listed in this section.

Other data : -

4. First aid measures:

Generally, if in doubt or if the symptoms persist, always consult a doctor.


NEVER force an unconscious person to swallow something.

4.1. Description of first aid measures:

- General : Administers of first aid must protect themselves whilst treating a victim, see section 8.
- Inhalation : Remove the victim from the contaminated area and move them to fresh air.
Consult a physician if irritation persists.
- Skin exposure : Wash with running water and soap. Consult a physician if skin irritation persists.
- Eye exposure : Wash thoroughly with water and keep eyelids wide open (15 minutes at least). If irritation persists, consult an ophthalmologist.
- Ingestion : Rinse mouth cavity with water. Do not induce vomiting.
See a doctor and show them the label.

4.2. Most important symptoms and effects, both acute and delayed: Can cause serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed : Not applicable

	<u>Safety Data Sheet</u>	Page 3 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPUR-0065

5. Fire-fighting measures

Non-flammable

5.1. Extinguishing resources

Appropriate extinguishing resources : Foam, sand, powder

Extinguishing resources advised against : Water, CO₂

5.2. Special hazards arising from the substance or mixture : Fires can often produce thick black smoke. Exposure to decomposition products may lead to health hazards. Do not inhale fumes.

In the event of a fire, the following can form:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Nitrogen oxides (NO_x) and ammonia (NH₃)

5.3. Advice for firefighters : Do not inhale fumes.

Wear a self-contained breathing apparatus and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel : Limit access to the area to authorised personnel. Avoid contact with eyes and skin.

6.1.2. For emergency personnel : Protagonists shall be equipped with appropriate personal protective gear (see section 8).

6.2. Environmental precautions : Contain and collect any leakage with non-flammable absorbing materials - such as sand, earth, vermiculite or diatomaceous earth - in drums, so the waste can then be eliminated.

Prevent entry into sewers, waterways, surface water and groundwater.


6.3. Methods and material for containment and cleaning up

6.3.1. Containment : Mark out the area during cleaning.
Collect mechanically (suck up or sweep away)

6.3.2. Cleaning up : Clean the area with water.

6.3.3. Removal : Remove the waste according to the regulations in force.

6.4. Refer to other sections : Refer to sections 8 and 13.

	Safety Data Sheet	Page 4 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPURK-0065

7. Handling and storage

Any instructions relating to storage areas are applicable to workshops in which the mixture is handled.

- 7.1. Precautions for safe handling : Wear personal protective gear (gloves, work clothes).
Ensure the workstation is well-ventilated.
Wash your hands after each use.
Remove and wash contaminated clothes before wearing them again.
Fire prevention: Prevent access to non-authorised individuals.
Recommended equipment and procedures: For personal protection gear, see section 8.
Comply with the precautions printed on the label, as well as with regulations pertaining to protection in the workplace.
Avoid mixture contact with eyes.
Forbidden equipment and procedures: It is prohibited to smoke, eat or drink in the premises where the mixture is used.
- 7.2. Conditions for safe storage, including any incompatibilities : Store in a cool, dry and well-ventilated area.
Always keep in its original packaging.
Incompatible materials: Flammable materials:
Recommended packaging materials: Plastic, glass, stainless steel.
- 7.3. Specific end use(s) : No available data.

8. Exposure control/Personal protection

- 8.1. Control parameters : No occupational exposure levels are known for this product.
- 8.2. Exposure controls
- Technical measures : Ensure the workstation is well-ventilated.


Personal protective measures




Store personal protective gear in a clean place, away from the working area.

During use, do not eat, drink or smoke. Remove and wash contaminated clothes before wearing them again.
Ensure sufficient ventilation, especially in closed areas.

Respiratory protection : Not applicable

	<u>Safety Data Sheet</u>	Page 5 of 12
		Version: 2
		Date: 26.10.17
		Create file: 26/01/2016
ECO NITRATE		FDSEXPUR-0065


Hand protection	: Wear appropriate protective gloves in case of prolonged or repeated skin contact. Use appropriate protective and waterproof gloves that resist chemicals, in compliance with standard NF EN374. The gloves must be chosen according to use and to how long the individual works at their station. Protective gloves must be chosen according to the person's workstation: other chemicals possibly handled, required physical protection (cuts, pricks, thermal protection), required dexterity.
Eye protection	: Avoid contact with eyes. Use eye protection designed to repel liquid projections. Prior to handling, side protection glasses must be worn, in accordance with standard NF EN166. In the event of acute danger, use a face shield to protect the face. If there is spraying involved, a face shield is required in accordance with standard NF EN166. Corrective glasses are not considered as protective gear. It is recommended for people with contact lenses to use corrective glasses when working in areas where exposure to irritating vapours is possible. Install eye baths in workshops where the product is handled constantly.
Body protection	All staff must wear regularly-washed work clothes. After being in contact with the product, any parts of the body dirtied must be cleaned.
Thermal risk	No specific information available.
Exposure control relating to environmental protection.	No specific information available.

	<u>Safety Data Sheet</u>	Page 6 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPUK-0065

9. *Physical and Chemical Properties:*

9.1. Information about essential physical and chemical properties

Appearance	: Liquid
Colour	: Greenish brown
Odour	: Not applicable
pH	: 5.0
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 1.0 ± 0.05
Solubility	: Water-soluble.
Auto-ignition temperature:	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.
9.2. Other information	: Not available.

	<u>Safety Data Sheet</u>	Page 7 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPURK-0065

10. Stability and reactivity

- 10.1. Reactivity : No substance testing revealed any specific reactivity data
- 10.2. Chemical stability : Product is stable in normal temperature and pressure conditions, and provided the handling and storage recommendations stipulated in section 7 are complied with.
- 10.3. Possibility of hazardous reactions : No specific data known.
- 10.4. Conditions to avoid : None during application and use providing the conditions of use are met.
- 10.5. Incompatible materials : No specific data known
- 10.6. Hazardous decomposition products : The product does not decompose in normal temperature and pressure conditions.
- In the event of a fire, the following can form:
- Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides (NO_x) and ammonia (NH₃)

11. Toxicological information:

- 11.1. Information regarding toxicological effects:

Inhalation: No major effects or critical hazards known.

Ingestion: No major effects or critical hazards known.

Skin exposure: No major effects or critical hazards known.

Eye exposure: Causes severe eye irritation. Can have a reversible effect on the eyes, such as irritation which can be reversed if treated within 21 days.

- 11.1.1 Substances

- 11.1.1.1 C11-C14, Iso-, C13-rich and ethoxylate alcohols


Acute toxicity:

Name of the ingredient	Result	Species	Dosage	Exposure
C11-C14, Iso-, C13-rich and ethoxylate alcohols	DL50 oral	Rat	1,100 to 3,400 mg/kg	-

Harmful if ingested. Can cause burns to the mouth, throat and stomach.

Possible gas, vapour or dust release that can be irritating or corrosive for the respiratory system.

Skin corrosion/skin irritation: No available data.

	<u>Safety Data Sheet</u>	Page 8 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPUR-0065

Serious eye damage/eye irritation: Causes serious eye damage.

Respiratory or skin sensitisation: No available data.

Mutagenicity of germ cells: No major effects or critical hazards known

Carcinogenicity: No major effects or critical hazards known

Reproductive toxicity:

Name of the ingredient	Toxicity during pregnancy	Fertility	Toxicity during development	Species	Dosage	Exposure
C11-C14, Iso-, C13-rich and ethoxylate alcohols	-	-	-	Rat	Oral	-

Teratogenicity: No major effects or critical hazards known

Effects on development: No major effects or critical hazards known

Effects on fertility: No major effects or critical hazards known

Specific toxicity for certain target organs - single exposure: No available data.

Specific toxicity for certain target organs - repeated exposure:

Name of the ingredient	Result	Species	Dosage	Exposure
C11-C14, Iso-, C13-rich and ethoxylate alcohols	Subchronic NOAEL Oral	Rat	50 mg/kg	90 days
C11-C14, Iso-, C13-rich and ethoxylate alcohols	Chronic NOAEL DERMAL	Rabbit	>270 mg/kg/d	18 months


Aspiration hazard: No available data.

11.1.1.2 Other ingredients

Substances classified as non-hazardous in terms of health

11.1.2 Mixture

No toxicological data is available for the mixture.

	<u>Safety Data Sheet</u>	Page 9 of 12
		Version: 2
		Date: 26.10.17
		Create file: 26/01/2016
ECO NITRATE		FDSEXPUK-0065

12. Ecological information:

12.1. Toxicity :

12.1.1. Substances

Substances not classified regarding the environment.

12.1.2. Mixtures

Not available

12.2. Persistence and degradability : Not available

12.2.1. Substances

Substances not classified regarding the environment, easily biodegradable.

12.2.2. Mixtures

Not available

12.3. Bioaccumulative potential : Not available

12.4. Mobility in soil : Not available


12.5. Results of PBT and vPvB assessment : The product's substances are not considered as PBT or vPvB according to the criteria defined in Appendix XIII of regulation 1907/2006.

12.6. Other adverse effects : Do not leave in prolonged contact with water in order to prevent any outflow of the product (risk of eutrophication).

13. Disposal considerations:

Appropriate measures for managing the product's waste and/or container must be determined, in accordance with the provisions set out in directive 2008/98/EC.

13.1. Waste treatment methods : Correct use of the product should not generate waste.
Dispose of the waste as a fertiliser or contact a licensed facility.
Dispose of waste accordance with the various legislation, regulations and decrees in force.

	<u>Safety Data Sheet</u>	Page 10 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPUR-0065

Do not pour into the sewage system or waterways.

Waste:

Waste is managed without causing any danger to human health, without harming the environment, and most importantly without creating any risks for the water, air, soil, fauna or flora.

Recycle or dispose of the waste in line with current legislations. This should preferably be done by a collector or certified company.

Do not contaminate the soil or water with any waste, do not dispose of them in the environment.

Dirty packaging:

Empty the container out completely. Keep the container's label.

Give it to the certified disposing agent.

Local provisions: Regulations relating to waste are included in the Environmental Code, pertaining to Order No. 2000-914 dated 18/09/2000 relating to the Legislative section of the Environmental Code.

The various texts can be found from Article L. 541-1 to Article L. 541-50, in Book V (Pollution, risk and damage prevention), Title IV (Waste), Chapter I (Waste disposal and material collection).

Waste codes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC relating to hazardous waste).

14. Transport information:


The product is not classified as a hazardous product for road, rail, marine or national/international air transport.

Exempt from classification and Transport labelling.

Transport the product in accordance with the provisions stipulated by the ADR for road transport, by the RID for rail transport, by the IMDG for sea transport and by the ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2013).

15. Regulatory information:

- | | |
|---|--|
| <p>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</p> | <p>: Information relating to classification and labelling, stipulated in section 2:
The following regulations were considered:
- 67/548/EEC directive and its adaptations
- 1999/45/EC directive and its adaptations</p> |
|---|--|

	<u>Safety Data Sheet</u>	Page 11 of 12
		Version: 2
ECO NITRATE		Date: 26.10.17
		Create file: 26/01/2016
		FDSEXPUR-0065

Information on labelling:
No available data.

Special provisions:
- Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Nomenclature of classified installations (January 2014):

ICPE no.	Section designation	Status	Radius
2170	Fertilisers and crop aids (manufacture) using organic matter.		

1. If production capacity is higher than or equal to 10 t/d

A 3

2. If production capacity is higher than or equal to 1 t/d but lower than 10 t/d

D

2171 Manure, fertiliser and crop aids (residue) that contain organic matter and are not appended to a farm. Residue amounts to more than 200 m3.

D

Status = A: authorisation; E: registration; D: declaration; S: service of public utility;
C: subject to periodic checks as required by article L. 512-11 of the Environmental Code.
Radius = Radius in kilometres.

15.2. Chemical safety assessment : A chemical safety assessment has been carried out by the supplier.

16. Other information:

This sheet complements the technical data sheets but is not a substitute for them. The information contained herein is based on current knowledge and experience of the product concerned at the date of this sheet's publication and has been provided in good faith.

This sheet draws the user's attention to the risks incurred when a product is used for purposes other than those it has been designed for. This sheet in no way exempts the user from being aware of and applying all the literature that regulates its use. The user assumes sole responsibility for the necessary precautions associated with their use of this product.

As the user's working conditions are not known to us, the information provided in this safety data sheet is based on our current knowledge and on national/community regulations.


The mixture must not be used for any other purposes than those detailed in section 1 without having previously obtained written handling instructions.

The user is always held responsible for taking all possible measures to ensure local requirements and regulations are complied with.

The information provided in this safety data sheet must be considered as a description of the safety requirements relating to the mixture, and not as a guarantee of its properties.

Description of H, EUH and R labels mentioned in section 3:

H302 Harmful if ingested.
H318 Causes serious eye damage.
R 22 Harmful if ingested.
R 41 Risk of serious eye damage.

	<u>Safety Data Sheet</u>	Page 12 of 12
		Version: 2
		Date: 26.10.17
		Create file: 26/01/2016
ECO NITRATE		FDSEXPUK-0065

Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation.

RID: Regulations concerning the International carriage of Dangerous goods by rail.