Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II / Regulation (EU) No. 2015/830.
- United Kingdom (UK)

Date of issue/ Date of revision : 05.11.2018

Date of previous issue : 15.01.2018

Version : 4.0



## SAFETY DATA SHEET

#### YaraLiva TROPICOTE

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : YaraLiva TROPICOTE

Product code : PA34FG

Product type : solid (granulates )

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

Industrial distribution.

Industrial USE to formulate chemical product mixtures.

Professional formulation of fertiliser products.

Professional USE as fertiliser at Farm - loading and spreading.

Professional USE as fertiliser in Greenhouse.

Professional USE as liquid fertiliser in open field (e.g. Fertigation).

Professional USE as fertiliser - maintenance of equipment.

Uses advised against	: Other non-specified industry
Reason	: Due to lack of related experience or data, the supplier
	cannot approve this use.

#### 1.3 Details of the supplier of the safety data sheet

Yara UK Limited

<u>Address</u>

Street : Harvest House, Europarc

Postal code : DN37 9TZ

City : Grimsby, North East Lincolnshire

Country : United Kingdom
Telephone number : +44 (0) 1472 889250
Fax no. : +44 (0) 1472 889251
e-mail address of person : yarauk.hesq@yara.com

responsible for this SDS

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#### 1.4 Emergency telephone number

National advisory body/Poison : Not available.

**Center** 

**Supplier** 

Telephone number : National Chemical Emergency Centre

+44 (0) 1865 407333

Hours of operation : 24h

#### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture. Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification : Acute Tox. 4, H302

Eye Dam. 1, H318

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### **2.2** Label elements

Hazard pictograms :



Signal word : Danger

**Hazard statements**: H302 Harmful if swallowed.

H318 Causes serious eye damage.

**Precautionary statements** 

**Prevention**: P280 Wear protective gloves and eye protection.

P270 Do not eat, drink or smoke when using this

product.

P264-a Wash hands thoroughly after handling.

**Response** : P305 IF IN EYES:

P351 Rinse cautiously with water for several

minutes.

P338 Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a POISON CENTER or

doctor/physician.

P301 IF SWALLOWED:

P312 Call a POISON CENTER or

doctor/physician if you feel unwell.

P330 Rinse mouth.

**Hazardous ingredients**: Nitric acid, ammonium calcium salt

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EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

One or more of the following entries are applicable; 3, 58 and 65.

#### Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger Yes, applicable., (if sold to the general public)

#### 2.3 Other hazards

Other hazards which do not result in classification

Product forms slippery surface when combined with water.

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Nitric acid, ammonium calcium salt	RRN: 01-2119493947- 16 EC: 239-289-5 CAS: 15245-12-2	>= 90 - < 100	Acute Tox. 4, H302 Eye Dam. 1, H318	[1]

#### Type

- [1] Substance classified with a physical, health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact Immediately flush eyes with plenty of water for at least 15

minutes, keeping eyelids open. Check for and remove any

contact lenses. Get medical attention immediately.

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**Inhalation**: If inhaled, remove to fresh air. Get medical attention immediately.

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

Skin contact : Gently wash with plenty of soap and water. Do not rub affected

area. Get medical attention if irritation develops.

Ingestion : Wash out mouth with water. If material has been swallowed and

the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without

suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it,

or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion** : Adverse symptoms may include the following:

stomach pains

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

**Suitable extinguishing media** : Use flooding quantities of water for extinction.

**Unsuitable extinguishing** : Do NOT use chemical extinguisher or foam or attempt to

media smother the fire with steam or sand.

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#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

No specific fire or explosion hazard.

Hazardous combustion products

: Avoid breathing dusts, vapors or fumes from burning

materials.

In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

#### **5.3** Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information : None.

#### **SECTION 6: Accidental release measures**

#### **6.1** Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **6.2** Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### **6.3** Methods and materials for containment and cleaning up

Small spill

Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and

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place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Not for human or animal consumption.

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Recommendations

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from: organic materials, oil and grease.

#### 7.3 Specific end use(s)

Recommendations : Not available.

## **SECTION 8: Exposure controls/personal protection**

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **8.1 Control parameters**

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#### Occupational exposure limits

**Remark** : No exposure limit value known.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the

following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of

exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General

requirements for the performance of procedures for the

measurement of chemical agents)

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredie nt name	Туре	Exposure	Value	Population	Effects
Nitric acid, ammonium calcium salt	DNEL	Short term Oral	10 mg/kg bw/day	Consumers	Systemic

#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
Nitric acid, ammonium calcium salt	PNEC	Sewage Treatment Plant	18 mg/l	Assessment Factors

#### **8.2** Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

Hygiene measures

A washing facility or water for eye and skin cleaning purposes should be present.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles

CEN: EN166

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an

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approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the

glove material. > 8 hours (breakthrough time): Protective gloves should be worn under normal conditions of use.

**Body protection** Personal protective equipment for the body should be

selected based on the task being performed and the risks

involved.

Other skin protection Appropriate footwear and any additional skin protection

> measures should be selected based on the task being performed and the risks involved and should be approved

by a specialist before handling this product.

**Respiratory protection** In case of inadequate ventilation wear respiratory

protection. Recommended: Filter P2 (EN 143)

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance

Physical state solid (granulates)

Color White. Odor Odorless. Odor threshold Not determined.

6.3 [Conc. (% w/w): 110 g/l] pН

Melting point/freezing point Decomposes: 400 °C

Initial boiling point and boiling

range

Not determined

Flash point Not determined **Evaporation rate** Not determined Flammability (solid, gas) Non-flammable.

Upper/lower flammability or

Lower: Not determined explosive limits **Upper:** Not determined

Vapor pressure Not determined Vapor density Not determined Relative density Not determined **Bulk density** 1,100 kg/m3

Solubility(ies) Soluble in the following materials:

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Partition coefficient: n-

octanol/water

Not determined

Auto-ignition temperature

Not determined Dynamic: Not determined.

**Viscosity** 

Kinematic: Not determined.

**Explosive properties** Non-explosive.

Oxidizing properties

None

9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

No specific test data related to reactivity available for this **10.1** Reactivity

product or its ingredients.

**10.2 Chemical stability** The product is stable.

**10.3** Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous

reactions will not occur.

**10.4** Conditions to avoid Avoid contamination by any source including metals, dust

and organic materials.

**10.5** Incompatible materials alkalis

> combustible materials reducing materials organic materials

Acids

Under normal conditions of storage and use, hazardous **10.6 Hazardous** 

decomposition products decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredie nt name	Result	Species	Dose	Exposure	References
Nitric acid, ammoni	um calcium salt				
	LD50 Oral	Rat	500 mg/kg OECD 423	Not applicable.	IUCLID
	LD50 Dermal	Rat	2,000 - 5,000 mg/kg OECD 402	Not applicable.	

Conclusion/Summary Harmful if swallowed.

#### **Acute toxicity estimates**

Route	ATE value
Oral	502 mg/kg

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#### Irritation/Corrosion

Product/ingred ient name	Result	Species	Score	Exposure	Observation	References
Nitric acid, ammonium calcium salt	Eyes - Severe irritant OECD 405	Rabbit	Not applicab le.	24 - 72 h	21 d	IUCLID 5

**Conclusion/Summary** 

**Skin** : No known significant effects or critical hazards.

**Eyes** : Causes serious eye damage.

**Respiratory**: No known significant effects or critical hazards.

**Sensitization** 

Conclusion/Summary

**Skin** : No known significant effects or critical hazards. **Respiratory** : No known significant effects or critical hazards.

**Mutagenicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

**Carcinogenicity** 

**Conclusion/Summary** : No known significant effects or critical hazards.

Reproductive toxicity

**Conclusion/Summary**: No known significant effects or critical hazards.

Information on the likely routes of exposure

Not available.

#### Potential acute health effects

**Inhalation** : May give off gas, vapor or dust that is very irritating or

corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Ingestion**: Harmful if swallowed. May cause burns to mouth, throat

and stomach.

**Skin contact** : No known significant effects or critical hazards.

**Eye contact** : Causes serious eye damage.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : No specific data.

**Ingestion** : Adverse symptoms may include the following:

stomach pains

**Skin contact** : Adverse symptoms may include the following:

irritation

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#### redness

**Eye contact**: Adverse symptoms may include the following: pain

watering redness

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate effects**: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

Long term exposure

**Potential immediate effects**: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

#### Potential chronic health effects

Product/ingredient	Result	Species	Dose	Exposure	References
name					
Nitric acid, ammonium calcium	Sub-acute NOAEL Oral	Rat	> 1,000 mg/kg	28 days	IUCLID 5
salt			OECD 407		

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

**Developmental effects**: No known significant effects or critical hazards.

**Effects on or via lactation** : No known significant effects or critical hazards.

Other effects : No known significant effects or critical hazards.

Other information : Not available.

## **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Product/ingredient	Result	Species	Exposure	References			
name							
Nitric acid, ammonium c	Nitric acid, ammonium calcium salt						
	Acute LC50 447 mg/l Fresh water	Fish	48 h	IUCLID 5			
	Acute EC50 > 100 mg/l Fresh water OECD 202	Daphnia	48 h	IUCLID 5			
	Acute LC50 > 100 mg/l Fresh water OECD 201	Algae	72 h	IUCLID 5			
	Acute EC50 > 1,000 mg/l Activated sludge OECD 209	Activated sludge	3 h	IUCLID 5			

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**Conclusion/Summary**: No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: Readily biodegradable in plants and soils.

#### 12.3 Bioaccumulative potential

**Conclusion/Summary** : No known significant effects or critical hazards.

12.4 Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

**Mobility** : This product may move with surface or groundwater flows

because its water solubility is: high

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation
06 10 02*	wastes containing hazardous substances

#### **Packaging**

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Empty the bag by shaking to remove as much as possible of its contents. Empty bags may be disposed of as non-hazardous material or

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returned for recycling.

**Special precautions** 

This material and its container must be disposed of in a

safe way.

Care should be taken when handling emptied containers

that have not been cleaned or rinsed out.

Empty containers or liners may retain some product

residues.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

Regulation: ADR/RID				
14.1 UN number	Not regulated.			
14.2 UN proper shipping name	Not applicable.			
14.3 Transport hazard class(es)	Not applicable.			
14.4 Packing group	Not applicable.			
14.5 Environmental hazards No.				
Additional information				

Regulation: ADN	Regulation: ADN				
14.1 UN number	Not regulated.				
14.2 UN proper shipping name	Not applicable.				
14.3 Transport hazard class(es)	Not applicable.				
14.4 Packing group	Not applicable.				
14.5 Environmental hazards	No.				
Additional information					
Danger code	: Not applicable.				

Regulation: IMDG			
14.1 UN number	Not regulated.		
14.2 UN proper shipping name	Not applicable.		
14.3 Transport hazard class(es)	Not applicable.		
14.4 Packing group	Not applicable.		
14.5 Environmental hazards	No.		
Additional information			
Marine pollutant	: No.		

Regulation: IATA			
14.1 UN number	Not regulated.		
14.2 UN proper shipping name	Not applicable.		
14.3 Transport hazard class(es)	Not applicable.		
14.4 Packing group	Not applicable.		
14.5 Environmental hazards	No.		
Additional information	•		

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Marine pollutant : No.

14.6 Special precautions for

<u>user</u>

: Transport within user's premises: Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

#### **14.8 IMSBC**

Bulk cargo shipping name : CALCIUM NITRATE FERTILIZER

Class : Not applicable.

Group : C

Marpol V : Non-HME

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

**Annex XIV:** None of the components are listed.

Substances of very high concern: None of the components are listed.

EU Regulation (EC) No.

1907/2006 (REACH) Annex XVII

- Restrictions on the

manufacture, placing on the

market and use of certain

dangerous substances,

mixtures and articles

#### Other EU regulations

#### Ozone depleting substances (1005/2009/EU)

None of the components are listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

Other regulations : This product is subject to Regulation (EU) 98/2013, all

suspicious transactions, disappearances and thefts should

One or more of the following entries are applicable; 3, 58 and

be reported to the relevant authority.

**National regulations** 

**Biocidal products regulation**: Not applicable.

**Denmark - Product registration** : 4108693

number

**Product registration number** : 315166

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Notes : To our knowledge no other country or state specific

regulations are applicable.

15.2 Chemical Safety

<u>Assessment</u>

Complete.

#### **SECTION 16: Other information**

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

[Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative

bw = Body weight

Key data sources : EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

Sphera Solutions Inc., 4777 Levy Street, St Laurent,

Quebec HAR 2P9, Canada.

Regulation (EC) No 1272/2008 Annex VI.

# <u>Procedure used to derive the classification according to Regulation (EC) No. 1272/2008</u> [CLP/GHS]

Classification	Justification	
Acute Tox. 4, H302	Calculation method	
Eye Dam. 1, H318	Calculation method	

#### Full text of abbreviated H statements

H302	Harmful if swallowed.
H318	Causes serious eve damage.

#### Full text of classifications [CLP/GHS]

Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Revision comments : Section 15. Regulatory information

Date of printing: 19.11.2018Date of issue/ Date of revision: 05.11.2018Date of previous issue: 15.01.2018Version: 4.0

Prepared by : Yara Chemical Compliance (YCC).

|| Indicates information that has changed from previously issued version.

#### Notice to reader

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To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.

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# <u>Annex to the extended Safety Data Sheet (eSDS) - Exposure Scenario:</u>

Identification of the substance or mixture

Product definition : Mixture

Product name : YaraLiva TROPICOTE

Exposure Scenario information

For each hazard resulting in classification relevant Exposure

Scenarios are attached.

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## Annex to the extended Safety Data Sheet (eSDS) -**Exposure Scenario:**

Section 1 - Title

Short title of the exposure scenario

: Yara - Nitric acid, ammonium calcium salt - Distribution,

Formulation

Identified use name Industrial distribution.

> Industrial USE to formulate chemical product mixtures. Industrial USE to formulate fertilisers product mixtures.

Substance supplied to that

use in form of

As such, In a mixture

List of use descriptors

**Process Category** : PROC01, PROC02, PROC03, PROC05, PROC08a, PROC08b,

PROC09, PROC14, PROC15, PROC19

**Environmental Release** 

Category

: ERC02, ERC03

Market sector by type of

chemical product

PC01, PC04, PC09a, PC11, PC12, PC15, PC16, PC20, PC21, PC29, PC35, PC37, PC39, PC 0: Other: K15000, R30 200, H15100, PC 0: Other: UCN P15100, PC 0: Other: UCN K35000,

O05990, O40000

Subsequent service life relevant for that use

No.

Number of the ES 02780-2/2015-03-15

#### Section 2 — Exposure controls

Contributing scenario controlling environmental exposure for: All

This product is not classified according to EU legislation., No exposure assessment presented for the

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environment.			

Contributing scenario controlling worker exposure for:

Product characteristics : Inorganic salt.

Concentration of substance :

in mixture or article

<= 100 %

Physical state : Solid.

Granulate Liquid. Melt prills

**Dust** : Solid, low dustiness

Frequency and duration of

use

Use duration (h/d): < 8

Area of use: : Indoor

Ventilation control

measures

Provide a basic standard of general ventilation (1 to 3 air changes

per hour)., No special ventilation requirements.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

 Pay attention to good general hygiene and housekeeping., Wash hands and face before breaks and immediately after handling the

product., Do not eat, drink or smoke when using this product.

Personal protection

Causes serious eye damage., Wear protective gloves/clothing and eye/face protection., Wear suitable gloves tested to EN374., Wear work clothing with long sleeves., If necessary:, Chemical splash goggles or face shield., See Section 8 of the safety data

sheet (personal protective equipment).

#### Section 3 — Exposure estimation and reference to its source

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#### **Exposure estimation and reference to its source - Workers:**

**Exposure assessment** 

(human):

Qualitative approach used to conclude safe use.

EXPOSURE ESTIMATION AND REFERENCE TO ITS

SOURCE

Not determined

Oral exposure is not expected to occur.

See Section 8 in SDS, DNEL.

# Section 4 — GUIDANCE TO DU TO EVALUATE WHETHER HE WORKS INSIDE THE BOUNDARIES SET BY THE ES

**Environment** : Not applicable.

**Health** : Not applicable.

#### **Abbreviations and acronyms**

**Process Category** 

PROC01 - Use in closed process, no likelihood of exposure

PROC02 - Use in closed, continuous process with occasional

controlled exposure

PROC03 - Use in closed batch process (synthesis or formulation)
PROC05 - Mixing or blending in batch processes for formulation
of preparations and articles (multistage and/or significant contact)

PROC08a - Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at non-

dedicated facilities

PROC08b - Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

dedicated facilities

PROC09 - Transfer of substance or preparation into small

containers (dedicated filling line, including weighing)

PROC14 - Production of preparations or articles by tabletting,

compression, extrusion, pelletisation PROC15 - Use a laboratory reagent

PROC19 - Hand-mixing with intimate contact and only PPE

available

**Environmental Release** 

Category

: ERC02 - Formulation of preparations ERC03 - Formulation in materials

Market sector by type of

chemical product

PC01 - Adhesives, sealants

PC04 - Anti-freeze and de-icing products

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PC09a - Coatings and paints, thinners, paint removers

PC11 - Explosives

PC12 - Fertilizers

PC15 - Non-metal surface treatment products

PC16 - Heat transfer fluids

PC20 - Products such as pH-regulators, flocculants, precipitants,

neutralization agents

PC21 - Laboratory chemicals

PC29 - Pharmaceuticals

PC35 - Washing and cleaning products (including solvent based

products)

PC37 - Water treatment chemicals

PC39 - Cosmetics, personal care products

PC 0: Other: K15000 - Coagulation agents

R30 200 - Raw materials for production of glass and ceramics

H15100 - Curing Agents - Concrete hardeners PC 0: Other: UCN P15100 - Accelerators

PC 0: Other: UCN K35000 - Construction materials (building

materials)

O05990 - Drilling chemicals - Other drilling chemicals

O40000 - Oxidizing agent.



# Annex to the extended Safety Data Sheet (eSDS) - Exposure Scenario:

#### Section 1 — Title

Short title of the exposure scenario

Yara - Nitric acid, ammonium calcium salt - Professional,

Fertilizer.

Identified use name

: Professional formulation of fertiliser products.

Professional USE as fertiliser at Farm - loading and spreading.

Professional USE as fertiliser in Greenhouse.

Professional USE as liquid fertiliser in open field (e.g.

Fertigation).

Professional USE as fertiliser - maintenance of equipment.

Substance supplied to that :

As such, In a mixture

use in form of

List of use descriptors

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**Process Category** : PROC02, PROC03, PROC05, PROC08a, PROC08b, PROC09,

PROC11, PROC13, PROC15, PROC19, PROC26

**Environmental Release** 

Category

: ERC08a, ERC08b, ERC08d, ERC08e

Market sector by type of

chemical product

: PC12

Sector of end use SU01, SU10

Subsequent service life

relevant for that use

: No.

: 02783-2/2015-03-15 Number of the ES

#### Section 2 — Exposure controls

#### Contributing scenario controlling environmental exposure for: All

This product is not classified according to EU legislation., No exposure assessment presented for the environment.

Contributing scenario controlling worker exposure for:

**Product characteristics** Inorganic salt.

Concentration of substance :

in mixture or article

<= 100 %

**Physical state** Solid.

> Granulate Liquid. Melt prills

**Dust** Solid, low dustiness

Frequency and duration of :

use

Use duration (h/d): < 8

Area of use: Indoor, Outdoor

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# Ventilation control measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour)., No special ventilation requirements.

#### Conditions and measures related to personal protection and hygiene

# Advice on general occupational hygiene

: Pay attention to good general hygiene and housekeeping., Wash hands and face before breaks and immediately after handling the product., Do not eat, drink or smoke when using this product.

#### **Personal protection**

: Causes serious eye damage., Wear protective gloves/clothing and eye/face protection., Wear suitable gloves tested to EN374., Wear work clothing with long sleeves., If necessary:, Chemical splash goggles or face shield., See Section 8 of the safety data sheet (personal protective equipment).

#### Section 3 — Exposure estimation and reference to its source

**Exposure estimation and reference to its source - Workers:** 

Exposure assessment

(human):

: Qualitative approach used to conclude safe use.

EXPOSURE ESTIMATION AND REFERENCE TO ITS

**SOURCE** 

: Not determined

Oral exposure is not expected to occur.

See Section 8 in SDS, DNEL.

# Section 4 — GUIDANCE TO DU TO EVALUATE WHETHER HE WORKS INSIDE THE BOUNDARIES SET BY THE ES

**Environment** : Not applicable.

**Health** : Not applicable.

#### Abbreviations and acronyms

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#### **Process Category**

PROC02 - Use in closed, continuous process with occasional controlled exposure

PROC03 - Use in closed batch process (synthesis or formulation)
PROC05 - Mixing or blending in batch processes for formulation
of preparations and articles (multistage and/or significant contact)

PROC08a - Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at nondedicated facilities

PROC08b - Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at dedicated facilities

PROC09 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC11 - Spraying outside industrial settings and/or applications

PROC13 - Treatment of articles by dipping and pouring

PROC15 - Use a laboratory reagent

PROC19 - Hand-mixing with intimate contact and only PPE available

PROC26 - Handling of solid inorganic substances at ambient temperature

# **Environmental Release** Category

: ERC08a - Wide dispersive indoor use of processing aids in open systems

ERC08b - Wide dispersive indoor use of reactive substances in open systems

ERC08d - Wide dispersive outdoor use of processing aids in open systems

ERC08e - Wide dispersive outdoor use of reactive substances in open systems

# Market sector by type of chemical product

: PC12 - Fertilizers

#### Sector of end use

: SU01 - Agriculture, forestry, fishery

SU10 - Formulation [mixing] of preparations and/or re-packaging

(excluding alloys)

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