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

Date of issue/ Date of revision : 12.02.2021
Date of previous issue : 01.02.2019

Version : 6.0



SAFETY DATA SHEET

YaraLiva Kalksalpeter

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

1.1 Product identifier

Product name : YaraLiva Kalksalpeter

Product code : PA34FG
Product type : Solid

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.

Professional USE as fertiliser - maintenance of equipment.

Consumer USE of fertilisers.

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 AB

<u>Address</u>

Street : Östra Varvsgatan

Number : 4
Postal code : 211 75
City : Malmö

Date of issue: 12.02.2021 Page:1/29

Country Sweden

P.O. Box Address

P.O. Box **BOX 4505** Postal code 203 20 Malmö City Country Sweden Telephone number 0101396000 Fax no. 0101396001

e-mail address of person yara.kundservice@yara.com

responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Name Giftinformationscentralen / Swedish Poisons Information

Telephone number 112 - begär Giftinformation / 112 - ask for Poison

Information

Hours of operation 24h

Supplier

Emergency telephone number :

(with hours of operation)

08 5664 2573 (Carechem, 24 h)

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

Date of issue: 12.02.2021 Page:2/29 **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.

Applicable, Table 65.

Hazardous ingredients : Nitric acid, ammonium calcium salt

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

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

Product meets the criteria for PBT or vPvB according to

Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a

PBT or a vPvB.

Other hazards which do not

result in classification

None known.

Additional information : Product forms slippery surface when combined with water.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type

Date of issue : 12.02.2021 Page:3/29

YaraLiva Kalksalpeter

name				
Nitric acid, ammonium	RRN:	>= 90 -	Acute Tox. 4, H302	[1]
calcium salt	01-2119493947-	100	Eye Dam. 1, H318	
	16			
	EC:			
	239-289-5			
	CAS:			
	15245-12-2			

Туре

- [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 running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.
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. Wash contaminated clothing thoroughly

4.2 Most important symptoms and effects, both acute and delayed

Date of issue : 12.02.2021 Page:4/29

with water before removing it, or wear gloves.

Over-exposure signs/symptoms

Eve 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

media

Do NOT use chemical extinguisher or foam or attempt to

smother the fire with steam or sand.

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

Decomposition products may include the following materials: nitrogen oxides, ammonia, 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Date of issue: 12.02.2021 Page:5/29

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 (see Section 8).

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 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

Date of issue: 12.02.2021 Page:6/29

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

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 information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Remark

Occupational exposure limits

occupational expectate ininte

Recommended monitoring procedures

: No exposure limit value known.

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

Date of issue: 12.02.2021 Page:7/29

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

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
Nitric acid, ammonium	PNEC	Sewage Treatment	18 mg/l	Assessment
calcium salt		Plant		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. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

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 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

Date of issue: 12.02.2021 Page:8/29

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.

Personal protective equipment

(Pictograms)







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.

 pH
 : 5 - 7 [Conc.: 50 g/l]

Melting point/freezing point : 90 - 100 °C

Initial boiling point and boiling

range

Not relevant/applicable due to nature of the product.

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

Upper/lower flammability or

explosive limits

Lower: Not determined Upper: Not determined

Vapor pressure: Not determinedVapor density: Not determinedRelative density: Not applicable.

Bulk density : 1.050 - 1.150 kg/m3

Solubility(ies) : Easily soluble in the following materials:

cold water

Water solubility : > 1.000 g/l

Miscibility with water : Not relevant/applicable due to nature of the product.

Date of issue: 12.02.2021 Page:9/29

Partition coefficient: n-

octanol/water

Auto-ignition temperature

Viscosity

Not determined

Not determined

Dynamic: Not relevant/applicable due to nature of the

product.

Kinematic: Not relevant/applicable due to nature of the

product.

Explosive properties Oxidizing properties

Non-explosive.

None

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 ReactivityNo specific test data related to reactivity available for this

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

10.6 Hazardous

decomposition products

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredie nt name	Method	Species	Result	Exposure	References
Nitric acid, ammoni	um calcium salt				
	OECD 423	Rat	500 mg/kg	Not	CSR
	LD50 Oral			applicable.	
	OECD 402	Rat	2.000 - 5.000	Not	
	LD50 Dermal		mg/kg	applicable.	

Conclusion/Summary: Harmful if swallowed.

Acute toxicity estimates

Date of issue: 12.02.2021 Page:10/29

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
YaraLiva Kalksalpeter	502 mg/kg	N/A	N/A	N/A	N/A
Nitric acid, ammonium calcium salt	500 mg/kg	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure	References		
Nitric acid, ammonium	Nitric acid, ammonium calcium salt						
	OECD 405 Eves	Rabbit	Damage	24 - 72 h	CSR		

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.

Date of issue: 12.02.2021 Page:11/29

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,

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	Method	Species	Result	Exposure	References
name					
Nitric acid, ammoniur	n calcium salt				
	OECD 407	Rat	> 1.000 mg/kg	28 days	CSR
	Sub-acute			,	
	NOAEL				
	Oral				

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/ingred ient name	Method	Species	Result	Exposure	References		
Nitric acid, ammonium calcium salt							
	Acute LC50	Fish	447 mg/l	48 h	IUCLID 5		

Date of issue: 12.02.2021 Page:12/29

Fresh water				
OECD 202	Daphnia	> 100 mg/l	48 h	CSR
Acute EC50				
Fresh water				
OECD 201	Algae	> 100 mg/l	72 h	IUCLID 5
Acute LC50				
Fresh water				
OECD 209	Activated	> 1.000 mg/l	3 h	CSR
Acute EC50	sludge			
Activated				
sludge				

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) Mobility Not available.

: This product may move with surface or groundwater flows

because its water solubility is: high

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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. Unused product can be spread on field

Date of issue: 12.02.2021 Page:13/29

according to current recommendations or be treated as

hazardous waste.

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 returned for recycling. The collection of empty package is done through SVEP-retur, www.svepretur.se

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			
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.		
	• •		

Date of issue: 12.02.2021 Page:14/29

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		

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 <u>Marine pollutant</u>	: No.	

14.6 Special precautions for

user

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 IMO instruments

Not applicable.

14.8 IMSBC

Bulk cargo shipping name

CALCIUM NITRATE FERTILIZER

Class Not applicable.

Group

Marpol V Non-HME

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or <u>mixture</u>

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.

Applicable, Table 65.

1907/2006 (REACH) Annex XVII

- Restrictions on the

manufacture, placing on the

market and use of certain

dangerous substances,

mixtures and articles

Date of issue: 12.02.2021 Page:15/29

Other EU regulations

Europe inventory : All components are listed or exempted.

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 regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-

precursors/docs/list_of_competent_authorities_and_nation

al contact points en.pdf.

National regulations

Biocidal products regulation : Not applicable.

Flammable liquid class

(SRVFS 2005:10)

Flammable liquid class

(SRVFS 2005:10)

Ordinance on Thermoset

Plastics

Not applicable.

Not applicable.

Not applicable.

Notes : To our knowledge no other country or state specific

regulations are applicable.

15.2 Chemical Safety

Assessment

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

N/A = Not available

PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Date of issue: 12.02.2021 Page:16/29

SGG = Segregation Group

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

bw = Body weight

Key data sources : EU REACH ECHA/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 eye damage.	

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY oral - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Revision comments	:	The following sections contain new and updated
		information: 1, 15, Annex.

Date of printing : 21.03.2022 Date of issue/ Date of : 12.02.2021

revision

Date of previous issue : 01.02.2019

Version : 6.0
Prepared by : Yara Chemical Compliance (YCC).

Indicates information that has changed from previously issued version.

Notice to reader

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.

Date of issue: 12.02.2021 Page:17/29



Annex to the extended Safety Data Sheet (eSDS) - Exposure Scenario/Safe Use Information:

Identification of the substance or mixture

Product definition : Mixture

Product name : YaraLiva Kalksalpeter

Exposure Scenario/Safe Use Information

For each hazard resulting in classification relevant Exposure

Scenarios are attached.

Date of issue: 12.02.2021 Page:18/29



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

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 fertilisers product mixtures.

Industrial USE to formulate chemical product mixtures.

Formulation by incorporating the product onto or into a matrix.

Substance supplied to that

use in form of

As such, In a mixture

List of use descriptors

Process Category : PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a,

PROC08b, PROC09, ESCOM, PROC13, PROC14, PROC15,

PROC19, PROC28

Environmental Release

Category

ERC02, ERC03

Market sector by type of

chemical product

PC01, PC04, PC09a, PC11, PC12, 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 : 08014-3/2018-08-06

Date of issue : 12.02.2021 Page:19/29

Section 2 — Exposure controls

Contributing scenario controlling environmental exposure for: All

This product is not classified according to EU legislation., As no environmental hazard was identified, no environmental-related exposure assessment and risk characterization was performed.

Contributing scenario controlling worker exposure for:

Product characteristics : Inorganic salt.

Concentration of substance :

in mixture or article

<= 100 %

Physical state : Solid.

Liquid.

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).

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Pay attention to good general hygiene and housekeeping., Wash hands before breaks and after work., Do not eat, drink or smoke

when using this product.

Personal protection: Wear suitable coveralls to prevent exposure to the skin.,

Chemical splash goggles or face shield.

Wear suitable gloves tested to EN374., breakthrough time: 480 min, Recommended, nitrile, butyl rubber, chloroprene rubber, See

Section 8 of the safety data sheet (personal protective

Date of issue: 12.02.2021 Page:20/29

equipment).

Section 3 — Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment:

Exposure estimation and reference to its source

Not applicable.

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

: Oral exposure is not expected to occur.

Inhalation exposure is considered to be not relevant.

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 : Comply with the safety instructions., Risk management measures

are based on qualitative risk characterisation.

Abbreviations and acronyms

Process Category : PROC01 - Chemical production or refinery in closed process

without likelihood of exposure or processes with equivalent

containment conditions

PROC02 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC03 - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or

Date of issue: 12.02.2021 Page:21/29

processes with equivalent containment condition

PROC04 - Chemical production where opportunity for exposure arises

PROC05 - Mixing or blending in batch processes

PROC08a - Transfer of substance or mixture (charging and

discharging) at non-dedicated facilities

PROC08b - Transfer of substance or mixture (charging and

discharging) at dedicated facilities

PROC09 - Transfer of substance or mixture into small containers

(dedicated filling line, including weighing)

ESCOM - Synthesis

PROC13 - Treatment of articles by dipping and pouring

PROC14 - Tabletting, compression, extrusion, pelletization,

granulation

PROC15 - Use as laboratory reagent

PROC19 - Manual activities involving hand contact

PROC28 - Manual maintenance (cleaning and repair) of

machinery

Environmental Release Category

ERC02 - Formulation into mixture

ERC03 - Formulation into solid matrix

Market sector by type of chemical product

PC01 - Adhesives, sealants

PC04 - Anti-freeze and de-icing products

PC09a - Coatings and paints, thinners, paint removers

PC11 - Explosives

PC12 - Fertilizers

PC16 - Heat transfer fluids

PC20 - Processing aids such as pH-regulators, flocculants,

precipitants, neutralization agents PC21 - Laboratory chemicals

PC29 - Pharmaceuticals

PC35 - Washing and cleaning 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.

Date of issue: 12.02.2021 Page:22/29



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.

Professional USE as fertiliser - maintenance of equipment.

Substance supplied to that

use in form of

As such, In a mixture

List of use descriptors

Process Category : PROC05, PROC08a, PROC08b, PROC09, PROC11, PROC13,

PROC15, PROC19, PROC26

Environmental Release

Category

ERC08b, ERC08e

Market sector by type of

chemical product

: PC12

Sector of end use SU01, SU10

Subsequent service life

relevant for that use

No.

Number of the ES : 08017-3/2018-08-06

Section 2 — Exposure controls

Date of issue: 12.02.2021 Page:23/29

Contributing scenario controlling environmental exposure for: All

This product is not classified according to EU legislation., As no environmental hazard was identified, no environmental-related exposure assessment and risk characterization was performed.

Contributing scenario controlling worker exposure for:

Product characteristics : Inorganic salt.

Concentration of substance: in mixture or article

: <= 100 %

Physical state

Solid. Liquid.

Dust : Solid, low dustiness

Frequency and duration of

use

Use duration (h/d): <= 8

Area of use: : Indoor, Outdoor

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 : Wear suitable coveralls to prevent exposure to the skin.,

Chemical splash goggles or face shield., Wear suitable gloves tested to EN374., butyl rubber, chloroprene rubber, nitrile, See

Section 8 of the safety data sheet (personal protective

equipment).

Section 3 — Exposure estimation and reference to its source

Date of issue: 12.02.2021 Page:24/29

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

Oral exposure is not expected to occur.

Inhalation exposure is considered to be not relevant.

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 : Comply with the safety instructions., Risk management measures

are based on qualitative risk characterisation.

Abbreviations and acronyms

Process Category : PROC05 - Mixing or blending in batch processes

PROC08a - Transfer of substance or mixture (charging and

discharging) at non-dedicated facilities

PROC08b - Transfer of substance or mixture (charging and

discharging) at dedicated facilities

PROC09 - Transfer of substance or mixture into small containers

(dedicated filling line, including weighing)

PROC11 - Non industrial spraying

PROC13 - Treatment of articles by dipping and pouring

PROC15 - Use as laboratory reagent

PROC19 - Manual activities involving hand contact

PROC26 - Handling of solid inorganic substances at ambient

temperature

Environmental Release Category

ERC08b - Widespread use of reactive processing aid (no

inclusion into or onto article, indoor)

ERC08e - Widespread use of reactive processing aid (no

inclusion into or onto article, outdoor)

Date of issue: 12.02.2021 Page:25/29

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)



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

Section 1 - Title

scenario

Short title of the exposure : Yara - Nitric acid, ammonium calcium salt - Consumer

Identified use name

Consumer USE in cosmetic products.

Consumer USE as part of specialist products.

Consumer USE of fertilisers.

Consumer USE in construction materials.

Substance supplied to that :

use in form of

In a mixture

List of use descriptors

Environmental Release

Category

ERC08a, ERC08b, ERC08c, ERC08d, ERC08e, ERC08f

Market sector by type of

chemical product

PC04, PC09a, PC12, PC37, PC39, PC 0: Other: UCN P15100,

H15100, PC 0: Other: UCN K35000

Subsequent service life relevant for that use

No.

Date of issue: 12.02.2021 Page:26/29 Number of the ES : 08010-3/2018-08-07

Section 2 — Exposure controls

Contributing scenario controlling environmental exposure for: All

This product is not classified according to EU legislation., As no environmental hazard was identified, no environmental-related exposure assessment and risk characterization was performed.

Contributing scenario controlling consumer exposure for:

Product characteristics : Inorganic salt.

Concentration of substance :

in mixture or article

<= 100,000 %

Physical state : Solid, Liquid

Dust : Solid, low dustiness

Frequency and duration of

use

Use duration (h/d): <= 8

Other given operational conditions affecting

consumers exposure

Hand held spraying, Ensure spraying away from persons.

Area of use: : Indoor or outdoor use

Room volume

Ventilation size:Rate per hour

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Avoid direct eye contact with product, also via contamination on

hands.

Personal protection: Do not eat, drink or smoke when using this product., Wash hands

thoroughly after handling., Avoid contact with eyes,

Date of issue: 12.02.2021 Page:27/29

Recommended, Wear protective gloves and eye protection., Wear safety glasses with side protection in accordance with EN 166.

Section 3 — Exposure estimation and reference to its source

Exposure estimation and reference to its source - Consumer:

Exposure assessment

(human):

: Qualitative approach used to conclude safe use.

Exposure estimation and reference to its source

Inhalation exposure is considered to be not relevant.

Oral exposure is not expected to occur.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Not applicable.

Health : Comply with the safety instructions., Risk management measures

are based on qualitative risk characterisation.

Abbreviations and acronyms

Environmental Release Category

ERC08a - Widespread use of non-reactive processing aid (no

inclusion into or onto article, indoor)

ERC08b - Widespread use of reactive processing aid (no

inclusion into or onto article, indoor)

ERC08c - Widespread use leading to inclusion into/onto article

(indoor)

ERC08d - Widespread use of non-reactive processing aid (no

inclusion into or onto article, outdoor)

ERC08e - Widespread use of reactive processing aid (no

inclusion into or onto article, outdoor)

ERC08f - Widespread use leading to inclusion into/onto article

(outdoor)

Date of issue : 12.02.2021 Page:28/29

Market sector by type of chemical product

: PC04 - Anti-freeze and de-icing products

PC09a - Coatings and paints, thinners, paint removers

PC12 - Fertilizers

PC37 - Water treatment chemicals

PC39 - Cosmetics, personal care products PC 0: Other: UCN P15100 - Accelerators H15100 - Curing Agents - Concrete hardeners

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

materials)

Date of issue: 12.02.2021 Page:29/29