Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II / Regulation (EU) No. 453/2010 -Norway

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SAFETY DATA SHEET

YaraMila NP 26-4 +Se

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

1.1 Product identifier

1	YaraMila NP 26-4 +Se
11	PKE1NG
:	Solid (granulates)
	:

<u>1.2 Relevant identified uses of the substance or mixture and uses advised against</u></u>

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.

<u>1.3 Details of the supplier of the safety data sheet</u>

		Yara Norge AS
<u>Address</u>		-
Street		Drammensveien 131
Postal code		0277
City		Oslo
Country	:	Norway
<u>P.O. Box Address</u>		
P.O. Box		343 Skøyen
Postal code		0213
City		Oslo
Country		Norway
Telephone number		+47 24 15 71 10
Fax no.		+47 24 15 71 83
e-mail address of person		sds.landbruk@yara.com
responsible for this SDS		

<u>1.4 Emergency telephone number</u>

National advisory body/Poison	Cent	ter_
Name	1	Giftinformasjonen (Poison Center)
Telephone number	10	+47 22 59 13 00
Hours of operation	10	24h
Supplier		
Telephone number Hours of operation	:	+47 21 03 44 52 (7/24)

SECTION 2: Hazards identification

2.1 Classification of the substan	ce c	or mixture
Product definition	1	Mixture
Classification according to Regu	ulati	on (EC) No. 1272/2008 [CLP/GHS]
Classification	:	Aquatic Chronic 3, H412
		The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Classification according to Direct The product is classified as danged		a 1999/45/EC [DPD] according to Directive 1999/45/EC and its amendments.
Classification	:	R52/53
Environmental hazards	:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
		phrases or H statements declared above. mation on health effects and symptoms.
2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	:	Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Avoid release to the environment.
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	:	Applicable, Table 58.
Special packaging requirements	<u>.</u>	
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Substance meets the criteria for PBT according to	:	Not applicable.
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Regulation (EC) No. 1907/2006, Annex XIII Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do not result in classification

Not applicable.

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Product forms slippery surface when combined with water.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Mixture

Product / ingredient				lassification	
name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
ammonium nitrate	RRN: 01-2119490981- 27 EC: 229-347-8 CAS : 6484-52-2	>=65 - <70	O; R8 Xi; R36	Ox. Sol. 3 H272 Eye Dam./Irrit. 2 H319	[1]
Potassium nitrate	RRN: 01-2119488224- 35 EC: 231-818-8 CAS : 7757-79-1	>=1 - <2	O; R8	Ox. Sol. 3 H272	[1]
ammonium chloride	RRN: 01-2119489385- 24 EC: 235-186-4 CAS : 12125-02-9 Index: 017-014-00-8	>=1 - <2	Xn; R22 Xi; R36	Acute Tox. 4 H302 (ORAL) Eye Dam./Irrit. 2 H319	[1][2]
zinc sulphate (hydrous) mono-, hexa-and hepta hydrate	RRN: 01-2119474684- 27 EC: 231-793-3 CAS : 7446-19-7 Index: 030-006-00-9	>=0,2 - <0,3	Xn; R22 Xi; R41 N; R50 R53	Acute Tox. 4 H302 (ORAL) Eye Dam./Irrit. 1 H318 AquaticAcute 1 H400 Aquatic Chronic 1 H410	[1]
disodium tetraborate decahydrate	RRN: 01-2119490790- 32 EC: 215-540-4	>=0,1 - <0,2	Repr.Cat.2; R60 R61	Repr. 1B H360FD (Fertility, Unborn child)	[1][2]

1303-96-4 Index: 005-011-01-1

<u>Type</u>

[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 R phrases or 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 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

		<u> </u>
Eye contact	:	Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	If inhaled, remove to fresh air. 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.
Skin contact	:	Wash with soap and water. 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.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
4.2 Most important symptoms a	nd (effects, both acute and delayed
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms Eye contact	<u>s</u> :	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
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Ingestion

: No specific data.

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	:	This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.\'20 The product itself is not combustible but it can support combustion, even in absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides and ammonia.		
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: nitrogen oxides ammonia sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides 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 precautions 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.\'20 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.		
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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). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for con	Itain	ment and cleaning up
6.3 Methods and material for con Small spill	<u>itain</u> :	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
		Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of

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

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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
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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.\'20 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. 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.
Industrial sector specific solutions	: 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.\'20 Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product / ingredient name	Exposure limit values
ammonium chloride	FOR-2011-12-06-1358 (1996-02-01)
	Time Weighted Average (TWA) 10 mg/m3
disodium tetraborate	FOR-2011-12-06-1358 (1996-02-01)
decahydrate	Time Weighted Average (TWA) 5 mg/m3
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	

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Product / ingredient name	Туре	Exposure	Value	Population	Effects
ammonium nitrate	DNEL	Long term Dermal	21,3 mg/kg bw/day	Workers	Systemic
ammonium nitrate	DNEL	Long term Inhalation	37,6 mg/m ³	Workers	Systemic
Potassium nitrate	DNEL	Long term Dermal	20,8 mg/kg bw/day	Workers	Systemic
Potassium nitrate	DNEL	Long term Inhalation	36,7 mg/m ³	Workers	Systemic
Potassium nitrate	DNEL	Long term Dermal	12,5 mg/kg bw/day	Consumers	Systemic
Potassium nitrate	DNEL	Long term Inhalation	10,9 mg/m ³	Consumers	Systemic
Potassium nitrate	DNEL	Long term Oral	12,5 mg/kg bw/day	Consumers	Systemic
ammonium chloride	DNEL	Long term Dermal	190 mg/kg bw/day	Workers	Systemic
ammonium chloride	DNEL	Long term Inhalation	33,5 mg/m ³	Workers	Systemic

PNECs

Product / ingredient name	Туре	Compartment Detail	Value	Method Detail
ammonium nitrate	PNEC	Fresh water	0,45 mg/l	Assessment Factors
ammonium nitrate	PNEC	Marine water	0,045 mg/l	Assessment Factors
ammonium nitrate	PNEC	Intermittent release	4,5 mg/l	Assessment Factors
ammonium nitrate	PNEC	Sewage Treatment Plant	18 mg/l	Assessment Factors
Potassium nitrate	PNEC	Marine	0,045 mg/l	Assessment Factors
Potassium nitrate	PNEC	Intermittent release	4,5 mg/l	Assessment Factors
Potassium nitrate	PNEC	Sewage Treatment Plant	18 mg/l	Assessment Factors
Potassium nitrate	PNEC	Fresh water	0,45 mg/l	Assessment Factors
ammonium chloride	PNEC	Fresh water	1,2 mg/l	Assessment Factors
ammonium chloride	PNEC	Marine water	0,12 mg/l	Assessment Factors
ammonium chloride	PNEC	Intermittent release	1,2 mg/l	Assessment Factors
ammonium chloride	PNEC	Soil	0,163 mg/kg dwt	Assessment Factors
ammonium chloride	PNEC	Sewage Treatment Plant	16,2 mg/l	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures Hygiene measures

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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.
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.
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	:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.\'20 Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
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

<u>Appearance</u> Physical state Color Odor Odor threshold pH		Solid (granulates) Beige. Gray. White. Odorless. Not determined. > 4,5 [Conc. (% w/w): 105 g/l]
Melting point/freezing point	:	Decomposes: > 210 °C
Initial boiling point and boiling range	:	
Flash point	1	Not determined
Evaporation rate		Not determined
Flammability (solid, gas)	÷.,	Non-flammable.
Upper/lower flammability or explosive limits Vapor pressure Vapor density Relative density Bulk density		Lower: Not determined Upper: Not determined Not determined Not determined Not determined Not determined

Solubility(ies)	:	Soluble in the following materials: cold water
Partition coefficient: n-octanol/water	:	Not determined
Auto-ignition temperature		Not determined
Viscosity	1.1	Dynamic: Not determined
-		Kinematic: Not determined
Explosive properties	1.1	None.
Oxidizing properties	1.1	None.
9.2 Other information		

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No 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 / ingredient name	Result	t	Species	Dose	Exposure	References
ammonium nitrate						
	LD50	Oral	Rat	2.950 mg/kg OECD 401	-	IUCLID 5
	LD50	Dermal	Rat	> 5.000 mg/kg OECD 402	-	IUCLID 5
Potassium nitrate						
	LD50	Oral	Rat	> 2.000 mg/kg	-	IUCLID 5
	LD50	Dermal	Rat	> 5.000 mg/kg	-	IUCLID 5
ammonium chloride						
	LD50	Oral	Rat	1.410 mg/kg	-	IUCLID 5

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	LD50	Dermal	Rat	> 2.000 mg/kg	-	IUCLID 5
zinc sulphate (hydr	ous) mo	no-, hexa	and hepta h	ydrate		
	LD50	Oral	Rat	1.710 mg/kg	-	
disodium tetraborat	e decah	iydrate				
	LD50	Oral	Rat	2.660 mg/kg	-	FMCHA2 -,C48,1991

Conclusion/Summary

: No known significant effects or critical hazards.

Acute toxicity estimates

Route	ATE value
Oral	101.441,4 mg/kg

Irritation/Corrosion

Product / ingredient name	Result	Species	Score	Exposure	Observation	References
Mixture	Eyes - Non-irritating . OECD 405	Rabbit	< 1	1 - 48 h	14 d	Fertilizers Europe
ammonium nitrate	Eyes - Irritant OECD 405	Rabbit			-	IUCLID 5
Potassium nitrate	Skin - Non-irritating . OECD 404	Rabbit	0		72 h	IUCLID 5
ammonium chloride	Eyes - Irritant	Rabbit			-	IUCLID 5
zinc sulphate (hydrous) mono-, hexa-and hepta hydrate	Eyes - Severe irritant	Rabbit			-	

Respiratory Sensitization

Eyes

Conclusion/Summary_ Skin Respiratory	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Mutagenicity</u>		
Conclusion/Summary	:	No known significant effects or critical hazards.
<u>Carcinogenicity</u>		
Conclusion/Summary	:	No known significant effects or critical hazards.

: Non-irritating.

: Non-irritating.

Reproductive toxicity

Product / ingredient	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
name							

						YaraMila NP	26-4 +Se
ammonium - nitrate		Negative	Negative	Rat	Oral : > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5
Potassium N nitrate	egative	Negative	Negative	Rat	Oral : > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5
ammonium - chloride		Negative	Negative	Rat	Oral : 1500 mg/kg bw/day		IUCLID 5
Conclusion/Sum	nmary	:	No known sig	nificant effe	ects or critical h	nazards.	
<u>Teratogenicity</u>							
Conclusion/Sum	nmary	:	No known sig	nificant effe	ects or critical h	nazards.	
Information on t routes of expos		:	No known sig	nificant effe	ects or critical h	nazards.	
Potential acute	health ef	<u>fects</u>					
Inhalation		:			on products m nay be delayed		ealth
Ingestion		:	No known sig	nificant effe	ects or critical h	nazards.	
Skin contact		:	No known sig	No known significant effects or critical hazards.			
Eye contact		:	No known sig	nificant effe	ects or critical h	nazards.	
Symptoms relat	ed to the	physical, c	chemical and to	oxicologica	al characteris	<u>tics</u>	
Inhalation		:	No specific da	ata.			
Ingestion		:	No specific da	ata.			
Skin contact		:	No specific da	ata.			
Eye contact		:	No specific da	ata.			
Delayed and im		effects and	also chronic e	ffects from	short and lo	ng term expo	<u>osure</u>
Short term expo Potential immed		cts :	No known sig	nificant effe	ects or critical h	nazards.	
Potential delaye	d effects	:	No known sig	nificant effe	ects or critical h	nazards.	
Long term expo Potential immed		cts :	No known sig	nificant effe	ects or critical h	nazards.	
Potential delaye	d effects	:	No known sig	nificant effe	ects or critical h	nazards.	
Potential chror	nic health	n effects					
Product /	Res	sult	Species	Dose	Expos	sure Refe	erences

ingredient name					
ammonium nitrate	Chronic NOAEL Oral	Rat	256 mg/kg OECD 422	28 days	IUCLID 5
	Sub-acute No-observable -effect-concen tration Dusts and mists Inhalation	Rat	> 185 mg/kg OECD 412	2 weeks 5 hours per day	IUCLID 5
Potassium nitrate	Sub-acute NOAEL Oral	Rat	> 1.500 mg/kg	28 days	IUCLID 5
ammonium chloride	Sub-chronic NOAEL Oral	Rat - Male	684 mg/kg	10 weeks	IUCLID 5

Conclusion/Summary	:	No known significant effects or critical hazards.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product / ingredient name	Result	Species	Exposure	References
ammonium nitrate				
	Acute LC50 447 mg/l Fresh water	Fish - Fish	48 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h	IUCLID 5
	Acute EC50 1.700 mg/l Salt water	Aquatic plants - Algae	10 d	IUCLID 5
Potassium nitrate				
	Acute LC50 1.378 mg/l Fresh water OECD 203	Fish - Fish	96 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h	IUCLID 5
	Acute EC50 > 1.700 mg/l Fresh water	Aquatic plants - Algae	240 h	IUCLID 5
ammonium chloride				
	Acute LC50 174 mg/I Marine water	Fish - Fish	96 h	IUCLID 5
	Acute LC50 209 mg/l Fresh water	Fish - Fish	96 h	IUCLID 5

	Acute EC50 101 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h	IUCLID 5
	Acute EC50 90,4 mg/I Marine water	Aquatic plants - Algae	10 d	IUCLID 5
	Acute EC50 1.300 mg/l Fresh water	Aquatic plants - Green algae	5 d	IUCLID 5
zinc sulphate (hydrous) m	nono-, hexa-and hepta	hydrate		
	Acute LC50 0,3 - 0,8 mg/l	Fish - Fish	96 h	
	Acute LC50 > 0,3 mg/l	Aquatic invertebrates. Daphnia	48 h	

Conclusion/Summary

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary	: No kn	: No known significant effects or critical hazards.					
Product / ingredient	Aquatic half-life	Photolysis	Biodegradability	References			
name							
ammonium nitrate							
			Not relevant for inorganic substances.				
ammonium chloride							
			Not relevant for inorganic substances.				

12.3 Bioaccumulative potential

Product / ingredient name	LogPow	BCF	Potential	References
ammonium chloride	-3,2	-	low	

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

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12.4 Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC) Mobility	:	Not available.

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

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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

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	wherever possible.\'20 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.\'20 Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

Waste code		Waste designation
06 10 99		wastes not otherwise specified
Packaging Methods of disposal	whe Incir recy rem may	generation of waste should be avoided or minimized rever possible. Waste packaging should be recycled. heration or landfill should only be considered when rcling is not feasible.\'20 Empty the bag by shaking to ove as much as possible of its contents. Empty bags be disposed of as non-hazardous material or returned ecycling.
Special precautions	safe Car that Emp resid Avo	a material and its container must be disposed of in a e way. e should be taken when handling emptied containers have not been cleaned or rinsed out. bty containers or liners may retain some product dues. id dispersal of spilled material and runoff and contact soil, waterways, drains and sewers.

SECTION 14: Transport information

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

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

Regulation: IMDG

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

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

Remark

A NPK fertilizer not liable to self-sustaining exothermic decomposition according to the S.1 trough test as defined in the recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, part III, section 38.

<u>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</u> Not applicable.

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14.8 IMSBC

Bulk cargo shipping name	:	AMMONIUM NITRATE BASED FERTILIZER (non-hazardous)
Class Group Marpol V		Not applicable. C 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 None of the components are listed.

Substances of very high concern: The following components are listed:

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
disodium tetraborate decahydrate	EU - Substances of very high concern - Toxic to reproduction	Candidate	ED/30/2010	2010-06-18
	EU - Substances of very high concern - Toxic to reproduction	Candidate	ED/30/2010	2010-06-18

Other EU regulations Europe inventory

: All components are listed or exempted.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Product / ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
disodium tetraborate decahydrate			Repr.Cat.2; R60 R61	Repr.Cat.2; R60 R61 Repr. 1B, H360FD (Fertility)
Notes		To our knowledge	e no other country or st	ate specific

NOLES		regulations are applicable.
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

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 literature references and sources for data	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. IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.Regulation (EC) No 1272/2008 Annex VI.

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

Classification	Justification	
Aquatic Chronic 3, H412	Calculation method	
Full text of abbreviated H : statements	 H272 May intensify fire; oxidiser. H302 (oral) Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360FD (Fertility, Unborn child) May damage fertility. May damage the unborn child. H400 Very toxic to aquatic life. 	

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Full text of classifications : Ox. Sol. 3, H272: OXIDIZING SOLIDS - Category 3 [CLP/GHS] Acute Tox. 4, H302: ACUTE TOXICITY (oral) - Category
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Eye Dam./Irrit. 1, H318: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Dam./Irrit. 2, H319: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Repr. 1B, H360FD (Fertility, Unborn child) : Reproductive toxicity (Fertility, Unborn child) - Category
1B Aquatic Acute 1, H400: AQUATIC HAZARD (ACUTE) -
Category 1 Aquatic Chronic 1, H410: AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 3, H412: AQUATIC HAZARD (LONG-TERM) - Category 3
Full text of abbreviated R phrases:R8- Contact with combustible material may cause fire. R60- May impair fertility. R61- May cause harm to the unborn child. R22- Harmful if swallowed. R41- Risk of serious damage to eyes. R36- Irritating to eyes. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications : O - Oxidizing [DSD/DPD] : Repr.Cat.2 - Toxic to reproduction category 2 Xn - Harmful Xi - Irritant N - Dangerous for the environment.
Date of printing:28.12.2015Date of issue/ Date of revision:22.12.2015
Date of previous issue : <t< th=""></t<>
Prepared by : Yara Product Classifications & Regulations. 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.



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

Identification of the substance or mixture

Product definition	:	Mixture
Product name	:	YaraMila NP 26-4 +Se
Exposure Scenario information	:	Not yet complete.