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SAFETY DATA SHEET

YaraMila FULLGJØDSEL 8-5-19 mikro

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

1.1 Product identifier

Product name	:	YaraMila FULLGJØDSEL 8-5-19 mikro
Product code	:	PE75BG
Product type	:	Solid (Granular 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 (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 Norge AS

Address

Street	:	Drammensveien 131
Postal code	:	0277
City	:	Oslo
Country	:	Norway

P.O. Box Address

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 responsible for this SDS	:	sds.landbruk@yara.com

1.4 Emergency telephone number

National advisory body/Poison Center

Name	:	Giftinformasjonen (Poison Center)
Telephone number	:	+47 22 59 13 00
Hours of operation	:	24h

Supplier

Telephone number	:	+47 21 03 44 52
Hours of operation	:	(7/24)

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 : Aquatic Chronic 3, H412

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R52/53

See Section 16 for the full text of the R phrases or H statements declared above.
See Section 11 for more detailed information 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 : Not applicable.

Special packaging requirements

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 Regulation (EC) No. 1907/2006, Annex XIII : Not applicable.

Substance meets the criteria : Not applicable.

for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
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	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Ammonium nitrate	RRN: 01-2119490981-27 EC: 229-347-8 CAS : 6484-52-2	>=12,5 - <15	O; R8 Xi; R36	Ox. Sol. 3 H272 Eye Dam./Irrit. 2 H319	[1]
disodium tetraborate decahydrate	RRN: Not available. EC: 215-540-4 CAS : 1303-96-4 Index: 005-011-01-1	>=0,2 - <0,3	Repr.Cat.2; R60 R61	Repr. 1B H360 Repr. 1B H360	[1][2]
copper sulphate	RRN: 01-2119520566-40 EC: 231-847-6 CAS : 7758-99-8 Index: 029-004-00-0	>=0,2 - <0,3	Xn; R22 Xi; R36/38 N; R50/53	Acute Tox. 4 H302 (ORAL) Skin Corr./Irrit. 2 H315 Eye Dam./Irrit. 2 H319 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	[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 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

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 and 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 : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

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.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
nitrogen oxides
sulfur oxides
phosphorus oxides
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. 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 : Not available.

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 specialised 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 materials for containment and cleaning up

Small spill : 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. Material free from contamination can be used for its original purpose.

Large spill : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Material free from contamination can be used for its original purpose.

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

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. Product forms slippery surface when combined with water.

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. 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. 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

Occupational exposure limits

Product / ingredient name	Exposure limit values
disodium tetraborate decahydrate	**FOR-2011-12-06-1358 (1996-02-01)** 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

DNELs/DMELs

Product / ingredient name	Type	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/m³	Workers	Systemic
copper sulphate	DNEL	Short term Dermal	137 mg/kg bw/day		
copper sulphate	DNEL	Long term Oral	0,041 mg/kg bw/day		

PNECs

Product / ingredient name	Type	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
copper sulphate	PNEC	Fresh water	7,8 µg/l	
copper sulphate	PNEC	Marine water	5,2 µg/l	
copper sulphate	PNEC	Sewage Treatment Plant	230 µg/l	
copper sulphate	PNEC	Fresh water sediment	87 mg/kg	
copper sulphate	PNEC	Marine water sediment	676 mg/kg	
copper sulphate	PNEC	Soil	65 mg/kg	

8.2 Exposure controls

Appropriate engineering : Good general ventilation should be sufficient to control worker

controls exposure to airborne contaminants.

Individual protection measures

Hygiene measures : 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. 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 and should be approved by a specialist before handling this product.

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, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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

Appearance

Physical state : Solid (Granular solid.)

Color : Beige. Gray. White.

Odor : Odorless.

Odor threshold : Not determined.

pH : > 4,5 [Conc. (% w/w): 105 g/l]

Melting point/freezing point : Decomposes: > 210 °C

Initial boiling point and boiling : Not determined

range		
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 determined
Vapor density	:	Not determined
Relative density	:	Not determined
Bulk density	:	Not determined
Solubility(ies)	:	Soluble in the following materials: cold water
Partition coefficient: n-octanol/water	:	Not determined
Auto-ignition temperature	:	Not determined
Viscosity	:	**Dynamic:** Not determined **Kinematic:** Not determined
Explosive properties	:	None.
Oxidizing properties	:	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	:	acids alkalis combustible materials reducing materials organic materials
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	Species	Dose	Exposure	References
Ammonium nitrate					
	LD50 Oral	Rat	2.950 mg/kg	-	IUCLID 5

			OECD 401		
	LD50 Dermal	Rat	> 5.000 mg/kg OECD 402	-	IUCLID 5
disodium tetraborate decahydrate					
	LD50 Oral	Rat	2.660 mg/kg	-	FMCHA2 -,C48,1991
copper sulphate					
	LD50 Oral	Rat	> 400 mg/kg OECD 401	-	IUCLID 5
	LD50 Dermal	Rat	> 2.000 mg/kg OECD 402	-	IUCLID 5

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

Irritation/Corrosion

Product / ingredient name	Result	Species	Score	Exposure	Observation	References
Ammonium nitrate	Eyes - Irritant OECD 405	Rabbit			-	IUCLID 5
copper sulphate	Skin - Erythema/Eschar OECD 404	Rabbit	0,22	4 h	72 h	IUCLID 5
	Skin - Edema OECD 404	Rabbit	0	4 h	72 h	IUCLID 5
	Eyes - Cornea opacity OECD 405	Rabbit	2,56		21 d	IUCLID 5
	Eyes - Iris lesion OECD 405	Rabbit	1		21 d	IUCLID 5
	Eyes - Redness of the conjunctivae OECD 405	Rabbit	2		21 d	IUCLID 5
	Eyes - Severe irritant	Rabbit			-	

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

Sensitization

Product / ingredient name	Route of exposure	Species	Result	References
copper sulphate	Skin	Guinea pig	Not sensitizing OECD 406	IUCLID 5

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

Mutagenicity

Product / ingredient name	Test	Experiment	Result	References
copper sulphate	OECD 471	In vitro	Negative	IUCLID 5
	486	In vivo	Negative	IUCLID 5

	Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo			

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

Carcinogenicity

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

Reproductive toxicity

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Ammonium nitrate	-	Negative	Negative	Rat	Oral : > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5
copper sulphate	-	-	-	Rat	Oral : 1000 ppm 416 Two-Generation Reproduction Toxicity Study		IUCLID 5

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

Teratogenicity

Product / ingredient name	Result	Species	Dose	Exposure	References
copper sulphate	Negative - Oral OECD 414	Rabbit	23,6 mg/kg	21 days Repeated dose	IUCLID 5

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

Information on the likely routes of exposure : No known significant effects or critical hazards.

Potential acute health effects

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin contact : No specific data.

Eye contact : No specific data.

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 name	Result	Species	Dose	Exposure	References
Ammonium nitrate	Chronic NOAEL Oral	Rat	256 mg/kg OECD 422	28 days	IUCLID 5
	Sub-acute NOEC Dusts and mists Inhalation	Rat	> 185 mg/kg OECD 412	2 weeks 5 hours per day	IUCLID 5
copper sulphate	Sub-chronic NOAEL Feed additive. Oral	Rat	1000 mg/kg Repeated dose OECD 408	92 days 7 days per week	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 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
copper sulphate				
	Acute EC50 0,0211	Aquatic plants	4 d	Arch.Environ.Co

	mg/l Fresh water	- Green algae		ntam.Toxicol. 43(1):19-27

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

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

Product / ingredient name	Aquatic half-life	Photolysis	Biodegradability	References
Ammonium nitrate				
			Not relevant for inorganic substances.	
copper sulphate				
			Not relevant for inorganic substances.	

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 : 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

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. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

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.

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	
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	
Marine pollutant	: No.
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.

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

14.8 IMSBC

Bulk cargo shipping name	:	AMMONIUM NITRATE BASED FERTILIZER (non-hazardous)
Class	:	Not applicable.
Group	:	C

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
Substances of very high concern:
Other EU regulations
Europe inventory : All components are listed or exempted.

Seveso II Directive
This product is not controlled under the Seveso II 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

Notes : To our knowledge no other country or state specific 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 :
H302 (ORAL) Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H272 May intensify fire; oxidizer.
H360FD May damage fertility. May damage the unborn child.

Full text of classifications [CLP/GHS] :
Acute Tox. 4, H302: ACUTE TOXICITY (ORAL) - Category 4
Aquatic Acute 1, H400: AQUATIC TOXICITY (ACUTE) - Category 1
Aquatic Chronic 1, H410: AQUATIC TOXICITY (CHRONIC) - Category 1
Aquatic Chronic 3, H412: AQUATIC TOXICITY (CHRONIC) - Category 3
Eye Dam./Irrit. 1, H318: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Dam./Irrit. 2, H319: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Ox. Sol. 3, H272: OXIDIZING SOLIDS - Category 3

Repr. H360FD: TOXIC TO REPRODUCTION

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.
Also harmful if swallowed.
R36- Irritating to eyes.
R36/38- Irritating to eyes and skin.
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 [DSD/DPD] :
O - Oxidizing
Repr.Cat.2 - Toxic to reproduction category 2
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment.

Revision comments : See Section 1 for supplier contact information.

Date of printing : 06.10.2014
Date of issue/ Date of revision : 02.10.2014

Date of previous issue	**:**	00.00.0000
Version	**:**	1.0
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 FULLGJØDSEL 8-5-19 mikro

Exposure Scenario information : Not yet complete.