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

Date of issue/ Date of revision Date of previous issue Version 02.10.2014 00.00.0000 1.0

12

2

5

VARA

SAFETY DATA SHEET

YaraMila FULLGJØDSEL 12-4-18 mikro

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

1.1 Product identifier

Product name Product code Product type YaraMila FULLGJØDSEL 12-4-18 mikro

: PF55KG

: Solid (granulates)

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

Identified uses

Industrial distribution. Industrial USE to formulate fertilisers 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

: None identified.

1.3 Details of the supplier of the safety data sheet

		Yara Norge AS
<u>Address</u>		
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	:	sds.landbruk@yara.com
responsible for this SDS		
-		

<u>1.4</u> Emergency telephone number

National advisory body/Poison Cen	ter

Name

: Giftinformasjonen (Poison Center)

Date of issue : 02.10.2014

Telephone number Hours of operation	:	+47 22 59 13 00 24h
<u>Supplier</u> Telephone number Hours of operation	:	+47 21 03 44 52 (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 : Not classified.

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

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

.

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	:	Not applicable.
Precautionary statements		
General Prevention Response	:	Not applicable. Not applicable. Not applicable.
Storage Disposal	:	Not applicable. Not applicable.
Supplemental label elements	:	Safety Data Sheet available for professional user on request.
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 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 for vPvB according to Regulation (EC) No. 1907/2006,	:	Not applicable.
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

2

Draduat / ingradiant			C		
Product / ingredient 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	>=5 - <7	O; R8 Xi; R36	Ox. Sol. 3 H272 Eye Dam./Irrit. 2 H319	[1]
Calcium fluoride (CaF2)	RRN: 01-2119491248- 30 EC: 232-188-7 CAS : 7789-75-5	>=1 - <2	Not classified.	Not classified.	[1][2]

<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

Eye contact	:	In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
Inhalation	:	If inhaled, remove to fresh air. In case of inhalation of

Date of issue : 02.10.2014

		YaraMila FULLGJØDSEL 12-4-18 mikro
		decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.
Skin contact	:	Wash with soap and water. Get medical attention if symptoms occur.
Ingestion	:	If potentially dangerous quantities of this material have been swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

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	<u>s</u> :	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
4.3 Indication of any immediate	me	dical attention and special treatment needed
Notes to physician	:	In case of inhalation of decomposition products in a fire,

Specific treatments

: No specific treatment.

symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

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	1	The product itself is not combustible but it can support
mixture		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 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	:	None.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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).
6.3 Methods and materials for con	ntai	nment 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	:	Immediately contact emergency personnel. Move containers from spill area. 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). 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,	incl	uding 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. Bund storage facilities to prevent soil and water pollution in the event of spillage. 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
Calcium fluoride (CaF2)	FOR-2011-12-06-1358 (2010-10-15) Time Weighted Average (TWA) 0,5 mg/m3 _(Calculated as F)

	EU OEL (2000-06-01) Time Weighted Average (TWA) 2,5 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	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/m³	Workers	Systemic
Calcium fluoride (CaF2)	DNEL	Long term Inhalation	5 mg/m³	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
Calcium fluoride (CaF2)	PNEC	Fresh water	0,9 mg/l	Assessment Factors
Calcium fluoride (CaF2)	PNEC	Soil	11 mg/kg dwt	Assessment Factors
Calcium fluoride (CaF2)	PNEC	Sewage Treatment Plant	51 mg/l	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls	:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
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
Date of issue : 02.10.2014		Page:7/15

		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 Color Odor Odor threshold pH		Solid (granulates) Brown. Gray. Odorless. Not determined. 4 - 5 [Conc. (% w/w): 100,5 g/l]
Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas)	:	Not determined Not determined Not determined Non-flammable.
Upper/lower flammability or explosive limits Vapor pressure Vapor density Relative density Bulk density Partition coefficient: n-octanol/water		Lower: Not determined Upper: Not determined Not determined Not determined Not determined Not determined Not determined

Auto-ignition temperature Viscosity Not determined
 Dynamic: Not determined
 Kinematic: Not determined
 None.
 None.

Explosive properties Oxidizing properties

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	:	No specific data.
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

<u>11.1</u> Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	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
Calcium fluoride (0	CaF2)				
	LD50 Oral	Rat	2.000 mg/kg	-	ICULID 5
	LC50 Inhalation	Rat	5,07 mg/l OECD 403	4 h	ICULID 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	Rabbit			-	IUCLID 5

YaraMila FULLGJØDSEL 12-4-18 mikro

	OECD 405					
Conclusion/Sun Skin Eyes Respiratory Sensitization	nmary	:	No known sig	gnificant effec	ts or critical haza ts or critical haza ts or critical haza	ards.
Conclusion/Sun Skin Respiratory	nmary_	:		•	ts or critical haza ts or critical haza	
<u>Mutagenicity</u> Conclusion/Sun	nmary	:	No known sig	gnificant effec	ts or critical haza	ards.
Carcinogenicity	-			-		
Conclusion/Sun	nmary	:	No known sig	gnificant effec	ts or critical haza	ards.

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		
Conclusion/S	Summary	:	No known signif	ficant effect	s or critical ha	azards.			
<u>Teratogenicit</u>	t y								
Conclusion/S	Conclusion/Summary :			No known significant effects or critical hazards.					
	Information on the likely : routes of exposure			No known significant effects or critical hazards.					
Potential acu	te health ef	fects							
Inhalation	Inhalation :			Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.					
Ingestion		:	No known signif	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 re	elated to the	<u>physical, c</u>	hemical and tox	icological	<u>characteristi</u>	<u>cs</u>			
Inhalation		:	No specific data	1.					
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	Rat	256 mg/kg	28 days	IUCLID 5
	NOAEL Oral				
			OECD 422		
	Sub-acute	Rat	> 185 mg/kg	2 weeks	IUCLID 5
	NOEC Dusts			5 hours per	
	and mists		OECD 412	day	
	Inhalation				
Conclusion/Summary :		No known significant effects or critical hazards.			
General	:	No known sig	gnificant 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	Result	Species	Exposure	References
name				
Ammonium nitrate				
	Acute EC50 490 mg/l Fresh water	Aquatic invertebrates.	48 h	IUCLID 5
	ing/in resin water	Daphnia		
	Acute EC50 1.700	Aquatic plants	10 d	IUCLID 5
	mg/I Salt water	- Algae		
Calcium fluoride (CaF2)				
	Acute EC50 26	Aquatic	96 h	IUCLID 5
	mg/l Fresh water	invertebrates.		
	Ũ	Water flea		
	Acute EC50 10,5	Aquatic	96 h	IUCLID 5
	mg/I Marine water	invertebrates.		
	, č	Water flea		
	Acute EC50 43	Aquatic plants	96 h	IUCLID 5
	mg/l Fresh water	- Algae		
	Acute EC50 81	Aquatic plants	96 h	IUCLID 5

		Yara	aMila FULLGJØDSE	L 12-4-18 mikro
mg/I Marine water	- Algae			

1

Conclusion/Summary

No known significant effects or critical hazards.

12.2 Persistence and degradability

Conclusion/Summary	: No known significant effects or critical hazards.					
Product / ingredient	Aquatic half-life	Photolysis	Biodegradability	References		
name						
Ammonium nitrate						
			Not relevant for inorganic substances.			
Calcium fluoride (CaF2	2)					
			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				

РВТ	:	P: Not available. B: Not available. T: Not available.
vPvB	:	vP: Not available. vB: Not available.
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 Hazardous waste	 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. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
Packaging Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled.
Date of issue : 02.10.2014	Page:12/15

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.
 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.	

Remark

A NPK fertilizer not liable to self-sustaining exothermic 2 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.

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	11	AMMONIUM NITRATE BASED FERTILIZER
		(non-hazardous)
Class	10	Not applicable.

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	1	Not determined.				
Integrated pollution prevention	1	Listed				
and control list (IPPC) - Air						
Integrated pollution prevention	:	Not listed				
and control list (IPPC) - Water						

Seveso II Directive

This product is not controlled under the Seveso II Directive.

National regulations

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
Date of issue : 02.10.2014		Page:14/15

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
Not classified.			
Full text of abbreviated H statements	:		auses serious eye irritation. lay intensify fire; oxidizer.
Full text of classifications [CLP/GHS]	:	IRRITATI	JIrrit. 2, H319: SERIOUS EYE DAMAGE/ EYE ON - Category 2 3, H272: OXIDIZING SOLIDS - Category 3
Full text of abbreviated R phrases	:		ct with combustible material may cause fire. ting to eyes.
Full text of classifications [DSD/DPD]	:	O - Oxidiz Xi - Irritant	•
Revision comments	:	See Section	on 1 for supplier contact information.
Date of printing		06.10.201	4
Date of issue/ Date of revision	1	02.10.201	4
Date of previous issue	1	00.00.000	0
Version	11	1.0	
Prepared by	1		uct Classifications & Regulations.
Indicates information that h	nas c	changed from	n 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.