

## SAFETY DATA SHEET

Ammonium Sulphate, Standard, 21-0-0

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

.1 Product identifier		
Product name	: Ammonium Sulphate, Standard, 21-0-0	
EC number	: 231-984-1	
REACH Registration num	nber	
Registration nu	umber Substance	
01-2119455044-46-XXXX	Ammonium sulphate	
CAS number	: 7783-20-2	
Product code	: 1691-30898	
Product description	: EC FERTILISER Straight Fertiliser Sulphate of Ammonia, Crystallised 21-0	
Product type	: Solid.	
Other means of identification	: Not available.	
Chemical formula	: O4-S.2H4-N	

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

Identified uses		
Fertiliser. Manufacture of chemicals. Manufacture of intermediates. Manufacture of speciality fertilisers.		
Uses advised against Reason		
Not applicable	Non-hazardous substance.	

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

Mutrien Europe SA Avenue Louise 326/36 1050 Bruxelles Belgium Tel : +32 (0)2 646 70 00 Fax : +32 (0)2 646 68 60 commercial@nutrien.eu	
e-mail address of person responsible for this SDS	: productsafety@nutrien.com
1.4 Emergency telephone nu	mber
National advisory body/Pois	son Centre
Telephone number	<ul> <li>Nutrien Safety Data Sheets are available in many languages at https://agproducts. nutrien.com/products/ Physicians, Poison Centres, or the Public may contact Nutrien's Global Emergency Response Number 24/7/365 for service in many languages at +1 303 389 1654</li> <li>AUSTRIA +43 1 406 43 43 AZERBAIJAN +994 125 979 924 BELARUS +375 17 287 00 92 BELGIUM +32 70 245 245 BULGARIA +359 2 9154 378; +359 887 435 325 CROATIA +358 1 2348 342 CZECH REPUBLIC +420 22 49 192 93 DENMARK +45 82 12 12 12</li> </ul>

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

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	ESTONIA 16662; +372 62 69 379
	FINLAND +358 9 471977
	FRANCE
	Angers +33 (0)2 41 48 21 21
	Bordeaux +33 (0)5 56 96 40 80
	Lille 0800 59 59 59 (national callers)
	Lyon +33 (0)4 72 11 69 11
	Marseille +33 (0)4 91 75 25 25
	Nancy +33 (0)3 83 22 50 50
	Paris +33 (0)1 40 05 48 48
	Rennes +33 (0)2 99 59 22 22
	Strasbourg +33 (0)3 88 37 37 37
	Toulouse +33 (0)5 61 77 74 47
	GEORGIA +995 99 53 33 20
	GERMANY
	Berlin +49 30 192 40
	Bonn +49 228 192 40
	Erfurt +49 361 730 730
	Freiburg +49 761 192 40
	Goettingen +49 551 192 40
	Homburg (Saar) +49 6841 192 40
	Mainz +49 6131 192 40
	Munich +49 89 192 40
	GREECE +30 21 07 79 37 77
	HUNGARY +36 80 20 11 99
	ICELAND +354 543 22 22
	IRELAND +353 1 837 9964 (medical professionals) +353 1 809 2166 (public)
	ISRAEL +972 4 854 19 00
	ITALY
	Bergamo +39 800 883 300
	Firenze +39 55 794 7819
	Foggia +39 881 732 326
	Genoa +39 10 563 62 45
	Milan +39 02 6610 1029
	Padova +39 49 827 50 78
	Pavia +39 38 224 444
	Rome +39 06 305 43 43
	Turin +39 011 663 7637
	KAZAKHSTAN +7 3272 925 868
	LITHUANIA +370 5 236 20 52; +370 687 533 78
	NETHERLANDS +31 30 274 88 88
	NORWAY +47 22 59 13 00
	POLAND
	-
	Gdansk +48 58 682 04 04
	Krakow +48 12 411 99 99
	Lòdz +48 42 63 14 724
	Sosnowiec +48 32 266 11 45
	Warszawa +48 22 619 66 54
	Wroclaw +48 71 343 30 08
	PORTUGAL 808 250 143 (national callers)
	ROMANIA +402 212 106 282
	RUSSIAN FEDERATION
	Ekaterinburg +7 343 229 98 57
	Moscow +7 495 628 1687
	Saint-Petersburg +7 921 757 3228
	SERBIA +381 11 3608 440
	SLOVAKIA +421 2 5477 4166
	SLOVENIA +386 41 635 500
	SPAIN +34 91 562 0420
	SWEDEN 112 (national callers); +46 (0)10 456 6700
	SWITZERLAND +41 44 251 51 51 (in Switzerland dial 145)
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## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

	THE FORMER YUGOSLAVIA +38 923 147 635
	TURKEY +90 0312 433 70 01 or 0 800 314 7900
	UNITED KINGDOM
	Belfast 844 892 0111
	Birmingham 844 892 0111
	Edinburgh 844 892 0111
	Newcastle Upon Tyne +44 191 2606182; +44 191 2606180
	Penarth 844 892 0111
Supplier	
Telephone number	In Mutrien Europe SA EMERGENCY TELEPHONE NUMBERS: Transportation: 00-1-303-389-1654 Medical: 00-1-303-389-1654
Hours of operation	: 24/7/365

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**2.2 Label elements** 

 Product definition
 : Mono-constituent substance

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

 Not classified. The product is NOT classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

Hazard pictograms		
Signal word	: No signal word.	
Hazard statements	: Not applicable.	
Precautionary statements		
General	: Read label before use. Keep out of reach of children. If medical advice is need have product container or label at hand.	ed,
Prevention	: Not applicable.	
Response	: Not applicable.	
Storage	: Not applicable.	
Disposal	: Not applicable.	
Supplemental label elements	: Safety data sheet available on request.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	
Special packaging requirem	<u>ents</u>	
Containers to be fitted with child-resistant fastenings	: Not applicable.	
Tactile warning of danger	: Not applicable.	

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## **SECTION 2: Hazards identification**

2.3 Other hazards	
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	: Not applicable. Inorganic salt.
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: Not applicable. Inorganic salt.
Other hazards which do not result in classification	: Not available.

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

#### : Mono-constituent substance 3.1 Substances % **Product/ingredient name Identifiers Regulation (EC) No.** Type 1272/2008 [CLP] [A] Ammonium sulphate REACH #: >99 Not classified. 01-2119455044-46-XXXX EC No.: 231-984-1 CAS: 7783-20-2

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>

[A] Constituent

[B] Impurity

[C] Stabilising additive

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

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact	eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms appear. 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	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. Decontaminate emergency personnel and equipment with soap and water.

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

Over-exposure signs/symptoms				
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: No specific data.			
Ingestion	: No specific data.			

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<b>SECTION 4: First aid</b>	measures	
4.3 Indication of any immedia	te 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. For professional, multilingual, medical support, in case of medical emergencies involving Nutrien products, telephone the Nutrien global 24 hour Emergency Number: 00-1-303-389-1654.	
Specific treatments	: No specific treatment.	
SECTION 5: Firefight	ting measures	
5.1 Extinguishing media		
Suitable extinguishing media	: Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.	
5.2 Special hazards arising fr	om the substance or mixture	
Hazards from the substance or mixture	<ul> <li>In a fire, hazardous decomposition products may be produced. Exposure to decomposition products may cause a health hazard.</li> </ul>	
Hazardous combustion products	: Decomposition products may include the following materials: nitrogen oxides sulfur oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Collect contaminated fire-fighting water separately. It must not enter the sewage system.	
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. Contain and collect the water used to fight the fire for later treatment and disposal.	

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

6.1 Personal precautions, pro	equipment and emergency procedures	
For non-emergency personnel	action shall be taken involving any personal risk or without acessary and unprotected personnel from entering. Wea in ventilation is inadequate. Put on appropriate personal p	r appropriate respirator
For emergency responders	ecialised clothing is required to deal with the spillage, take mation in Section 8 on suitable and unsuitable materials. mation in "For non-emergency personnel".	
6.2 Environmental precautions	d dispersal of spilt material and runoff and contact with so sewers. Inform the relevant authorities if the product has acts (sewers, waterways, soil or air). May be harmful to th ased in large quantities. Collect spillage.	caused adverse

### 6.3 Methods and material for containment and cleaning up

### SECTION 6: Accidental release measures

Small spill	<ul> <li>Move containers from spill area. Recover the material and use it for its intended purpose or Place spilt material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor.</li> </ul>				
Large spill	: No additional information.				
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.

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Wear appropriate respirator when ventilation is inadequate.
Advice on general occupational hygiene	: Do not ingest. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. May form steep piles that can collapse without warning when stored in bulk. Avoid forming steep slopes when removing product. Ensure that bulk bags or smaller packaged products stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, rolling, or collapse. Use caution when opening truck or railcar doors as product may have shifted during transport.

Must be stored in a dry location. Absorbs moisture on long-term storage under high humidity conditions. Store away from incompatible materials (see Section 10). When product is stored in sealable containers, keep container tightly closed and sealed until ready for use. Sealable containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

### 7.3 Specific end use(s)

Recommendations : Fertiliser.

Industrial sector specific : Not applicable. Non-hazardous substance. solutions

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

### 8.1 Control parameters

### Occupational exposure limits

No exposure limit value known.	Check your local regulations to determine if exposure limits exist for
	soluble dusts. (Inhalable fraction or Respirable fraction)
procedures atm of t pro me nat	this product contains ingredients with exposure limits, personal, workplace mosphere or biological monitoring may be required to determine the effectiveness the ventilation or other control measures and/or the necessity to use respiratory otective equipment. Reference should be made to European Standard EN 689 for ethods for the assessment of exposure by inhalation to chemical agents and ational guidance documents for methods for the determination of hazardous ibstances.

### **DNELs/DMELs**

_		Туре	Exposure		alue	Population		Effects	
		DNEL	Long term Inhalation	11,2 kg b	mg/ w/day	Workers		Systemic	
DNEL/DMEL Summary	: No	ot considere	d to be toxic to hum	ans.					
PNECs			1						
Product/ingredie	nt nan	ne	Compartment D			/alue		Method Detail	
Ammonium sulphate			Fresh water		0,312 r	ng/l	Asses	ssment Factors	
PNEC Summary	: S	lightly harm	ful to aquatic organi	sms.					
2 Expedito controlo									
.2 Exposure controls	. N		ntilation requirement	ate Ca	od doo	oral ventileti	on cho	uld be sufficient to	
Appropriate engineering controls			ntilation requiremer er exposure to airbor						
controis			ith exposure limits, u						
			ering controls to kee						
		tatutory limit		p none					
Individual protection measu		,							
Hygiene measures			stiness. If dust is ger					iate, use respirato	
	th	hat will protect against dust/mist. Wash hands after handling.							
Eye/face protection		Safety eyewear complying with an approved standard should be used when a risk							
			ndicates this is nece						
Skin protection	g	ases or dus	ts. Recommended:	sealed	eyewe	ar or safety (	glasse	s with side-shields	
Skin protection	. т					riaa damamdi			
Hand protection			protective equipme No special measure				ing up	on your risk	
Body protection			tective equipment fo	•			ted ba	end on the task	
Body protection			ned and the risks in						
		01	ng this product. No						
Other skin protection			ootwear and any ad	•	•	-			
• • • • • • • • • • • • • • • • • • • •			ed on the task being						
	а	pproved by	a specialist before h	andling	this pr	oduct.			
<b>Respiratory protection</b>			ly fitted, air-purifying						
			risk assessment ind						
			known or anticipate						
			ing limits of the sele	ected re	spirato	r. No persor	hal res	piratory protective	
En de martelle de la			normally required.					- handle al faire a	
Environmental exposure controls			m ventilation or wor with the requirement						
controis			scrubbers, filters or						

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

9.1 Information on basic physical	and chemical properties
<u>Appearance</u>	
Physical state	: Crystalline solid.
Colour	: White to yellowish.
Odour	: Odourless.
Odour threshold	: Not applicable
рН	: 5 to 6 [Conc. (% w/w): 10%]
Melting point/freezing point	: Decomposition temperature: 235.01°C
Initial boiling point and boiling range	: Decomposes on heating. Not applicable
Flash point	: [Product does not sustain combustion.]

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

Evaporation rate	:	Not applicable.
Flammability (solid, gas)	:	Not applicable.
Upper/lower flammability or explosive limits	:	Not applicable.
Vapour pressure	1	Not applicable
Vapour density	:	Not applicable
Relative density	:	1.78
Solubility(ies)	1	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not applicable. Decomposes on heating.
Decomposition temperature	:	235°C
Viscosity	1	Solid. Not applicable.
Explosive properties	:	This material is not explosive. May react explosively when mixed with chlorinated materials such as hypochlorites.
Oxidising properties	÷	Not applicable. No oxidising ingredients present.
9.2 Other information		
Solubility in water	1	Soluble in water in any proportion.

No additional information.

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

10.1 Reactivity	:	Not considered to be reactive.
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	:	Hygroscopic. Keep container tightly closed. Absorbs moisture on long-term storage under high humidity conditions.
10.5 Incompatible materials	:	Incompatible with: Incompatible with copper alloys, copper, and zinc. strong acids strong alkalis Incompatible with halogens, hydrogen peroxide, chlorinated hydrocarbons, fluorine, nitric acid, oxidising agents and sulphuric acid.
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
Ammonium sulphate	LD50 Oral LD50 Oral	Mouse - Male, Female Rat - Male, Female	3040 mg/kg >2000 mg/kg	-
Conclusion/Summary	: Very low toxicity to humans or a hazardous.	nimals. Effects a	are not sufficient fo	r classification as

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Irritation/Corrosion

## **SECTION 11: Toxicological information**

Product/ingredient name	Resu	lt	Specie	s Sco	ere Exposu	re Observation		
Ammonium sulphate	Skin		Rabbit	0	20 hours	24 hours		
	Eyes		Rabbit	0	-	72 hours		
Conclusion/Summary	·			<u>.</u>				
Skin	: Non-irritating to	the ski	n.					
Eyes	: Non-irritating to	the eye	es.					
Respiratory	: Non-irritating to	the res	piratory system.					
Sensitisation	_							
Product/ingredient name	Route of		Species		Result			
	exposure							
Ammonium sulphate	skin Guinea		ea pig No		lot sensitizing			
Conclusion/Summary				1				
Skin	: Not sensitizing							
Respiratory	: Not sensitizing							
<u>Mutagenicity</u>								
Product/ingredient name	Test		Experimen			Result		
Ammonium sulphate	OECD 476		Experiment: In vitro Subject: Mammalian-Anir Cell: Somatic			gative		

Experiment: In vitro

Cell: Germ

Subject: Mammalian-Animal

**Species** 

Rat - Male,

Female

_				
Con	clue	ion/S	umma	211
001	LIUS			<b>1 V</b>

**Product/ingredient name** 

**Conclusion/Summary** 

**Carcinogenicity** 

### **Reproductive toxicity**

Ammonium sulphate

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Ammonium sulphate	Negative	Negative		Mouse - Male, Female	Oral: 5000 mg/ kg	-

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

**OECD 473** 

: No mutagenic effect.

Negative - Oral - TCLo

: No carcinogenic effect.

Result

#### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium sulphate	Negative - Oral	Rat - Male, Female	1500 mg/kg	-

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

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

Negative

Exposure

2 years; 7 days

per week

Dose

1288 mg/kg

### **SECTION 11: Toxicological information**

Information on likely routes of exposure	:	Skin contact Inhalation
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.

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

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

### Delayed and immediate effects as well as 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 effe	ects

#### **Product/ingredient name** Result **Species** Dose Exposure Chronic NOAEL Oral Ammonium sulphate Rat - Male, 256 mg/kg 52 weeks; 7 Female days per week **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. : No known significant effects or critical hazards. **Mutagenicity 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.

### **Other information**

: Not available.

## **SECTION 12: Ecological information**

12.1	Tox	icitv
	. • • •	,

Product/ingredient name	Result	Species	Exposure
Ammonium sulphate	Acute LC50 14000 ug/L Fresh water Acute LC50 53 mg/l	Daphnia - Daphnia magna - Young - <=24 hours Fish - Oncorhynchus mykis	48 hours 96 hours
Conclusion/Summary	: Very low acute toxicity to fish. Based on available data, the classification criteria a not met.		on criteria are

### 12.2 Persistence and degradability

Conclusion/Summary : Not persistent.

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## **SECTION 12: Ecological information**

### 12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.
12.5 Results of PBT and vF	PvB assessment
PBT	: Not applicable. Inorganic salt.
vPvB	: Not applicable. Inorganic salt.
	· Not applicable. Inorganic sait.

**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.

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised 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. 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	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>

### European waste catalogue (EWC)

Waste code	Waste designation	
06 10 99	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture wastes not otherwise specified	
Packaging		
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	
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 spilt material and runoff and contact with soil, waterways, drains and sewers.	

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ICAO
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
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SECTION 14: T	SECTION 14: Transport information				
14.3 Transport hazard class(es)	-	-	-	-	
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.	
Additional information	-	-	-	-	

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

: Not available.

#### <u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations Europe inventory

: This material is listed or exempted.

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is not controlled under the Seveso III Directive.

International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

## **SECTION 15: Regulatory information**

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

International lists	
National inventory	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Japan	<ul> <li>Japan inventory (ENCS): All components are listed or exempted.</li> <li>Japan inventory (ISHL): Not determined.</li> </ul>
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.
15.2 Chemical safety assessment	: Complete.

## **SECTION 16: Other information**

Indicates information that had a second s	s changed from previously issued version.
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative</li> </ul>
Key literature references and sources for data	<ul> <li>REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 DECEMBER 2006, with successive adaptations, amendments, and corrigenda.</li> <li>REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 DECEMBER 2008, with successive adaptations, amendments, and corrigenda.</li> <li>ECHA, European Chemicals Agency, Classification and Labelling Database DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 4 JULY 2012 on the control of major-accident hazards involving dangerous substances</li> <li>European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), latest revision.</li> <li>Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods, with successive amendments.</li> <li>REGULATION (EC) No 2003/2003 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 13 OCTOBER 2003 RELATING TO FERTILISERS, with successive adaptations, amendments, and corrigenda.</li> <li>American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances, latest edition.</li> <li>Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers</li> </ul>
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### **SECTION 16: Other information**

ERG 2016 Emergency Response Guidebook IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. The Fertilizer Institute, Toxicity Testing Results, March 2003 Substance Information Exchange Forum Database

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

Classification	Justification
Not classified. The product is NOT classified as hazardous according to Regulation (EC) 1272/2008 as amended.	Weight of evidence

Full text of abbreviated H statements

Not applicable.

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

Not applicable.

DISCLAIMER AND LIMITATION OF LIABILITY			
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/2/2018			
/22/2019			

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