

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

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SAFETY DATA SHEET

PK 0-20-30

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

1.1 Product identifier

Product name : PK 0-20-30
Product code : PM601G
Product type : solid (Granulate)

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 UK Limited

Address
Street : Harvest House, Europarc
Postal code : DN37 9TZ
City : Grimsby, North East Lincolnshire
Country : United Kingdom
Telephone number : +44 (0) 1472 889250
Fax no. : +44 (0) 1472 889251
e-mail address of person responsible for this SDS : yarauk.hesq@yara.com

1.4 Emergency telephone number

Date of issue : 19.09.2019

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National advisory body/Poison Center : Not available.

Supplier

Emergency telephone number (with hours of operation) : National Chemical Emergency Centre
+44 (0) 1865 407333 (24h)

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 : Eye Dam. 1, H318

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements

Prevention : P280 Wear protective gloves and eye protection.
Response : P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

Hazardous ingredients : Potassium sulfate
Triple superphosphates
Superphosphates

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

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	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Superphosphates	RRN: 01-2119488967-11 EC: 232-379-5 CAS : 8011-76-5	>= 35 - < 45	Eye Dam. 1, H318	[1]
Triple superphosphates	RRN: 01-2119493057-33 EC: 266-030-3 CAS : 65996-95-4	>= 20 - < 25	Eye Dam. 1, H318	[1]
Potassium sulfate	RRN: 01-2119489441-34 EC: 231-915-5 CAS : 7778-80-5	>= 20 - < 25	Eye Dam. 1, H318	[1]
magnesium oxide	RRN: Not available. EC: 215-171-9 CAS : 1309-48-4	>= 7 - < 10	Not classified.	[2]
colemanite (calcium borate)	RRN: Not available. EC: 234-511-7 CAS : 12291-65-5	>= 1 - < 2	Repr. 2, H361fd (Fertility, Unborn child)	[1]
ulexite (boronate)	RRN: Not available. EC: 603-535-3 CAS : 1319-33-1	>= 1 - < 2	Repr. 2, H361fd (Fertility, Unborn child)	[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 H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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

Remarks : This product contains Boron (see section 7 and 11).
The content is below the level required for classification of the product as toxic to reproduction.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.
- Inhalation** : If inhaled, remove to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
- Skin contact** : 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. Get medical attention if you feel unwell.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- 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.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None identified.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : No specific fire or explosion hazard.

Hazardous combustion products : Decomposition products may include the following materials:
sulfur 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 protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment (see Section 8).

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Avoid dust generation. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Not for human or animal consumption.

Protective measures : Put on appropriate personal protective equipment (see Section 8). As a precaution, keep exposure as low as possible for pregnant women, children and workers in reproductive age. Avoid dust generation. Do not breathe dust. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- 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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

- Recommendations** :
- Do not generate and inhale liquid fertilizer aerosols.

In addition to overalls, gloves and eye protection, use of efficient respiratory protection (P2/P3 respirators with a tight face seal) during discharge of fertilizer bags and maintenance of equipment is recommended to minimize inhalation exposure and to ensure safe-use during this activity (see section 8).

Risk assessments show safe use during normal spreading of fertilizers containing below 5% of boron by tractor (liquid or granular) and backpack (liquid).

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
magnesium oxide	EH40/2005 WELs (1997-01-01) TWA 10 mg/m ³ (Calculated as Mg) Form: inhalable dust TWA 4 mg/m ³ (Calculated as Mg) Form: respirable dust and fume

- 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

Product/ingredient name	Type	Exposure	Value	Population	Effects
Superphosphates	DNEL	Long term Dermal	17.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.1 mg/kg bw/day	Workers	Systemic
Triple superphosphates	DNEL	Long term Dermal	17.4 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.1 mg/m ³	Workers	Systemic
Potassium sulfate	DNEL	Long term Dermal	21.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	37.6 mg/m ³	Workers	Systemic

PNECs

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
Superphosphates	PNEC	Fresh water	1.7 mg/l	Assessment Factors
	PNEC	Marine water	0.17 mg/l	Assessment Factors
	PNEC	Intermittent release	17 mg/l	Assessment Factors
Triple superphosphates	PNEC	Fresh water	1.7 mg/l	Assessment Factors
	PNEC	Marine water	0.17 mg/l	Assessment Factors
	PNEC	Intermittent release	17 mg/l	Assessment Factors
Potassium sulfate	PNEC	Fresh water	0.68 mg/l	Assessment Factors
	PNEC	Marine water	0.068 mg/l	Assessment Factors
	PNEC	Sewage Treatment Plant	10 mg/l	Assessment Factors


8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : A washing facility or water for eye and skin cleaning

purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Recommended: Tightly-fitting goggles, CEN: EN166,
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.
> 8 hours (breakthrough time): butyl rubber, nitrile rubber, Chloroprene
- 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 respiratory protection with more than 94% efficiency (P2, P3 or N95) and a tight face seal, when risk of exposure to dust.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Personal protective equipment (Pictograms)** : 

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : solid (Granulate)
- Color** : Dark grey.,
- Odor** : Acid.
- Odor threshold** : Not determined.

pH	: 3 - 4 [Conc. (% w/w): 100 g/l]
Melting point/freezing point	: Not determined
Initial boiling point and boiling range	: Not determined
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	: 1,000 - 1,200 kg/m ³ @ 20 °C
Solubility(ies)	: Partially 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	: Non-explosive.
Oxidizing properties	: None

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

<u>10.1 Reactivity</u>	: No specific test data related to reactivity available for this product or its ingredients.
<u>10.2 Chemical stability</u>	: The product is stable.
<u>10.3 Possibility of hazardous reactions</u>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<u>10.4 Conditions to avoid</u>	: Avoid contamination by any source including metals, dust and organic materials.
<u>10.5 Incompatible materials</u>	: No specific data.
<u>10.6 Hazardous decomposition products</u>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredie	Method	Species	Result	Exposure	References
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nt name					
Superphosphates					
	OECD 425 LD50 Oral	Rat	> 5,000 mg/kg	Not applicable.	IUCLID
	OECD 403 LC50 Inhalation	Rat	> 5 mg/l	4 h	IUCLID 5
	OECD 402 LD50 Dermal	Rat	> 5,000 mg/kg	Not applicable.	IUCLID 5
Triple superphosphates					
	OECD 425 LD50 Oral	Rat	> 5,000 mg/kg	Not applicable.	IUCLID
	OECD 403 LC50 Inhalation	Rat	> 5 mg/l	4 h	IUCLID
	OECD 402 LD50 Dermal	Rat	> 5,000 mg/kg	Not applicable.	IUCLID
Potassium sulfate					
	OECD 425 LD50 Oral	Rat	> 5,000 mg/kg	Not applicable.	IUCLID
	LC50 Inhalation	Rat	1.2 mg/l	192 h	IUCLID
	OECD 402 LD50 Dermal	Rat	> 5,000 mg/kg	Not applicable.	IUCLID
colemanite (calcium borate)					
	LD50 Dermal	Rabbit	> 5,000 mg/kg	Not applicable.	
ulexite (boronate)					
	LD50 Dermal	Rabbit	> 5,000 mg/kg	Not applicable.	

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

Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure	References
Superphosphates					
	OECD 405 Eyes	Rabbit	Severe irritant		IUCLID 5
Triple superphosphates					
	OECD 405 Eyes	Rabbit	Severe irritant		IUCLID 5
Potassium sulfate					
	Eyes	Rabbit	Corrosive.		IUCLID 5

Conclusion/Summary

Skin : No known significant effects or critical hazards.
Eyes : Causes serious eye damage.
Respiratory : No known significant effects or critical hazards.

Sensitization

Product/ingredient name	Method	Species	Result	References
Superphosphates				
	OECD 429 Skin	Mouse	Not sensitizing	IUCLID 5
Triple superphosphates				
	OECD 429	Mouse	Not sensitizing	IUCLID 5

	Skin			
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Conclusion/Summary

- Skin** : No known significant effects or critical hazards.
Respiratory : No known significant effects or critical hazards.

Mutagenicity

Product/ingredient name	Method	Test detail	Result	References
Superphosphates				
	OECD 471	OECD 471	Negative	IUCLID 5
Triple superphosphates				
	OECD 471	Bacteria In vitro	Negative	IUCLID 5

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

Carcinogenicity

Product/ingredient name	Method	Species	Result	Exposure	References
Potassium sulfate					
	OECD 453 Oral	Rat	Negative NOAEL 284 mg/kg bw/day		IUCLID5

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

Reproductive toxicity

Product/ingredient name	Method	Species	Result	Exposure	References
Potassium sulfate					
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental- Negative NOAEL > 1500 mg/kg bw/day		IUCLID5

- Conclusion/Summary** : Contains boron which may harm fertility, based on animal data. Contains boron which may harm the unborn child, based on animal data.

- Information on the likely routes of exposure** : Not available.

Potential acute health effects

- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
- Ingestion** : May cause burns to mouth, throat and stomach.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin contact** : No specific data.
- Eye contact** : Adverse symptoms may include the following: pain watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Potential chronic health effects

Product/ingredient name	Method	Species	Result	Exposure	References
Superphosphates					
	OECD 422 Sub-chronic NOAEL Oral	Rat	250 mg/kg	90 days	IUCLID 5
Triple superphosphates					
	OECD 422 Sub-chronic NOAEL Oral	Rat	250 mg/kg	90 days	IUCLID 5
Potassium sulfate					
	OECD 453 Chronic NOAEL Oral	Rat	256 mg/kg	Not applicable.	IUCLID5

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Fertility effects** : Contains boron which may harm fertility, based on animal data.
- Developmental effects** : Contains boron which may harm the unborn child, based on animal data.
- Effects on or via lactation** : No known significant effects or critical hazards.
- Other effects** : No known significant effects or critical hazards.
- Other information** : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Method	Species	Result	Exposure	References
Superphosphates					
	OECD 203 Acute LC50 Fresh water	Fish	> 85.9 mg/l	96 h	IUCLID 5
	Acute LC50	Water flea	1,790 mg/l	72 h	IUCLID 5
	OECD 201 Acute EC50	Algae	> 87.6 mg/l	72 h	IUCLID 5
	OECD 209 Acute EC50 Fresh water	Activated sludge	> 100 mg/l	3 h	IUCLID 5
Triple superphosphates					
	OECD 203 Acute LC50	Fish	> 85.9 mg/l	96 h	IUCLID 5
	Acute LC50	Water flea	1,790 mg/l	72 h	IUCLID 5
	OECD 201 Acute EC50	Algae	> 87.6 mg/l	72 h	IUCLID 5
	OECD 209 Acute EC50 Fresh water	Activated sludge	> 100 mg/l	3 h	IUCLID 5
Potassium sulfate					
	Acute LC50 Fresh water	Fish	680 mg/l	96 h	IUCLID5
	Acute LC50 Fresh water	Daphnia	720 mg/l	48 h	IUCLID5
	Acute EC50 Fresh water	Algae	2,700 mg/l	432 h	IUCLID5
	Chronic NOEC Fresh water	Algae	> 100 mg/l	Not applicable.	IUCLID 5
colemanite (calcium borate)					
	Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h	
ulexite (boronate)					
	Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h	

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

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
02 01 08*	agrochemical waste containing hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way.
 Care should be taken when handling emptied containers that have not been cleaned or rinsed out.
 Empty containers or liners may retain some product residues.
 Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulation: ADR/RID

14.1 UN number : Not regulated.

14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	

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

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
<u>Marine pollutant</u>	: No.

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

14.6 Special precautions for user : Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not applicable.

14.8 IMSBC

Bulk cargo shipping name : FERTILIZERS WITHOUT NITRATES
Class : Not applicable.
Group : C
Marpol V : 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

Annex XIV: None of the components are listed.

Substances of very high concern: None of the components are listed.

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.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

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

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Biocidal products regulation : Not applicable.

Notes : To our knowledge no other country or state specific regulations are applicable.

15.2 Chemical Safety Assessment : Complete.

SECTION 16: Other information

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- DMEL = Derived Minimal Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- PBT = Persistent, Bioaccumulative and Toxic
- vPvB = Very Persistent and Very Bioaccumulative
- bw = Body weight

Key data sources : 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.
Sphera Solutions Inc., 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
Eye Dam. 1, H318	Calculation method

Full text of abbreviated H statements

H318	Causes serious eye damage.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

Full text of classifications [CLP/GHS]

Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Repr. 2, H361fd	TOXIC TO REPRODUCTION (Fertility, Unborn child) - Category 2

Revision comments : The following sections contain new and updated information: 8.
Exposure Scenario information

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Version : 5.0
Prepared by : Yara Chemical Compliance (YCC).

|| Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.



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

Identification of the substance or mixture

Product definition : Mixture

Product name : PK 0-20-30

Exposure Scenario/Safe Use Information : Exposure Scenarios are not attached for corrosive or irritant hazards, relevant information on safe use is included in section 8. Boron compounds: Exposure Scenarios are not attached. Relevant information on safe use is included in section 7 and 8.

