Product Safety Data Sheet

Conforms to REGULATION (EU) No. 453/2010

Group Number 1.4 Version **Issue Date** May-18 Last Updated Jan-23



PK Fertilizers

1.0	Identification of the substance/mixture and of the company/undertaking		
1.1	Product Identifier		
	Product/Trade name	Glasson Fertilisers 00-24-24; 00-20-30; 00-30-20; 00-18-36; 00-10-40; and any other nitrogen-free solid compound fertilizers containing P and K.	
	Common chemical name	PK fertilizer, compound fertilizers	
	Synonyms	Not applicable.	
	Chemical formula	Not applicable.	
	EU index number	Not applicable.	
	EC No	Not applicable.	
	CAS No.	Not applicable.	
	REACH Registration Number.	Not applicable as the fertilizer is a mixture.	
	National Product Registration Number, where applicable	Not applicable.	
1.2	Relevant identified uses of the substance or	mixture and uses advised against	
	Use of the substance/mixture	Fertilizer	
	Uses advised against	The use of this substance should be limited to those specified in this SDS.	
1.3	Details of the supplier of the safety data she	et	
	Manufacturer/Importer/Supplier	Glasson Fertilisers	
		West Quay, Glasson Dock	
		Lancaster, LA2 0DB	
		Tel: +44 (0) 1524 753600	
		fertilizers@glassongrain.co.uk	
1.4	Emergency telephone number	+44 (0)1524 753600 (7:30am - 5:00pm)	

Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation 1272/2008 (CLP)

Hazard Statement(s)

Classification in accordance with

Directive 67/548 (DSD)

Risk phrase(s)

Eye Irrit. 1, H318

H318 - causes serious eye damage

Xi;R41

R41 - Risk of serious damage to eyes

2.2 Label elements

Hazard pictogram(s)



Contains: Triple Super Phosphate

	Signal word	Danger		
	Hazard Statement(s)	H318 - causes serious eye damage		
	Precautionary statement(s)	P280 Wear protective gloves/clothing P264 Wash thoroughly after handling P305 + P351 + If in eyes: rinse cautiously with water for several minutes. P338 Remove contact lenses, if present and easy to do so. Continue rinsing. Store away from incompatible materials. P501 Dispose of contents/container in accordance with local/regional/national/international regs		
2.3	Other hazards			
	PBT/vPvB criteria	According to Annex XIII of Regulation (EC) No 1907/2006, no PBT and vPvB assessment has been conducted.		
	Other hazards which do not result in classifi	l cation		
	Physical and chemical hazards	Fertilizers are basically harmless products when handled correctly. However, the following points should be noted for heating and fire. The fertilizer is not itself combustible. On heating or fire, toxic fumes containing phosphorous oxides, (e.g. P2O5), sulphur oxides, (SOx), hydrogen chloride gas and danger of toxic flourine based pyrolosis products may be present.		
	Health hazards	The fertilizers are basically harmless products when handled correctly. However, most important symptoms and effects both acute and delayed is eye irritation. Prolonged or repeated contact with skin may cause discomfort, ingestion of large quantities may give rise to gastro-intestinal disorders and inhalation of dust at high concentrations may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing.		
	Environmental hazards	Heavy spillage of nitrate and phosphate may cause adverse environmental impact such as eutrophication in confined surface waters or nitrate contamination. See Section 12.		

	Composition/information on ingredients						
Mixture							
C	Chemical name	CAS no.	EC no.	Generic REACh Reg No.)	Classification Regulation (EC) No. 1272/2008	Classification Directive 67/548/EEC	% (w/w)
Т	riple Superphosphate	65996-95-4	266-030-3	01-2119493057-33- xxxx	Eye Dam. 1, H318	Xi;R41	Variable
С	Diammonium Phosphate	7783-28-0	231-987-8	01-2119490974-22- xxxx	-	-	Variable
N	Monoammonium Phosphate	7722-76-1	231-764-5	01-2119488166-29- xxxx	-	-	Variable
Ρ	Potassium Chloride	7447-40-7	231-211-8	Exempt	-	-	Variable
N	Magnesium Sulphate	14168-73-1	231-298-2	Exempt	-	-	Variable
C	Calcium Carbonate	471-34-1	207-439-9	Exempt	-	-	Variable
Р	Potassium Sulphate	7778-80-5	231-915-5	01-2119489441-34- xxxx	-	-	Variable

4.0	irst aid measures		
4.1	Description of first aid measures		
	General	In some cases medical attention necessary (see below).	
		Remove from source of exposure to dusts. Obtain medical attention if ill effects occur.	
		Do not induce vomiting. Rinse mouth and then give water or milk to drink. Obtain medical attention if more than a small quantity has been swallowed.	
	Skin contact	Wash the affected area with water.	
	_	Flush/irrigate eyes with copious amounts of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Obtain medical attention if symptoms persist.	

4.2	Most important symptoms and effects, both acute and delayed	
	Acute effects	Symptoms include itching, burning, redness, and tearing of eyes.
	Delayed effects	None known.
4.3 Indication of any immediate medical attention and special treatment needed		n and special treatment needed
	Note to physician	Treat symptomatically. Contact poison centre specialist immediately if large quantities have been ingested or inhaled.

5.0	Fire-fighting measures			
5.1	Extinguishing media	Extinguishing media		
	Suitable extinguishing media	If fertilizer is not directly involved in the fire Use the best means available to extinguish the fire If fertilizer is involved in the fire The product is not flammable. Use plenty of water.		
	Unsuitable extinguishing media	Do not use chemical extinguishers or foams or attempt to smother the fire with steam or sand.		
5.2	Special hazards arising from the substance	or mixture		
	Specific hazards	No specific fire or explosion hazard.		
	Hazardous thermal decomposition and combustion products	Phosphorous oxides, (e.g. P2O5), sulphur oxides, (SOx), and danger of toxic flourine based pyrolysis products; Phosphates, (P inclusion), and, Hydrogen chloride gas; Potassium Chloride (K inclusion).		
5.3	Advice for firefighters	`		
	Special fire fighting procedures	Open doors and windows of the store to give maximum ventilation. Avoid breathing the fumes (toxic); stand up-wind of the fire. Prevent any contamination of fertilizer by oils or other combustible materials.		
	Special protective equipment for fire-fighters	Use a self-contained breathing apparatus if fumes are being entered.		

6.0	Accidental release measures		
	Personal precautions, protective equipment and emergency procedures	Avoid walking through spilled product and exposure to dust.	
6.2	Environmental precautions	Take care to avoid the contamination of watercourses and drains and inform the appropriate authority in case of accidental contamination of watercourses.	
	Methods and material for containment and cleaning up	Any spillage of fertilizer should be cleaned up promptly, swept up and placed in a clean labelled open container for safe disposal, avoiding dusty conditions. Do not mix with sawdust and other combustible or organic substances. Dilute any contaminated or fine grained fertilizer with inert materials such as limestone/dolomite, mineral phosphate, gypsum, sand or dissolve in water.	
6.4	Reference to other sections	See section 1 for emergency contact information, section 8 for personal protective equipment and section 13 for waste disposal.	

7.0	Handling and storage		
	The information in this section contains generic advice and guidance. The list of identified uses given in section 1 should be considered for any use-specific information provided in the Exposure Scenario(s).		
7.1	Precautions for safe handling	Avoid excessive generation of dust. Avoid contamination by combustible (e.g. diesel oil, grease, etc.) and/or other incompatible materials. Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up. When handling the product over long periods use appropriate personal protective equipment, e.g. gloves. Carefully clean all equipment prior to maintenance and repair.	
7.2	Conditions for safe storage, including any incompatibilities	Store in compliance with national and local regulations Locate away from the sources of heat or fire. Keep away from combustible materials and substances mentioned under Section10. On farm, ensure that the fertilizer is not stored near hay, straw, grain, diesel oil, etc. When stored loose, take particular care to avoid mixing with other fertilizers. Ensure high standard of housekeeping in the storage area. Do not permit smoking and use of naked lights in the storage areas. Restrict stack size (according to local regulations) and keep at least 1m distance around the stacks of bagged products. Any building used for the storage should be dry and well ventilated. Where the nature of the bagged product and climatic conditions so require, store under conditions that will avoid product breakdown by thermal cycling (wide variation in temperature). The product should not be stored in direct sunlight to avoid physical breakdown due to thermal cycling. Packaging materials: Plastic synthetic materials, steel and aluminum are suitable. Avoid use of copper and zinc.	
7.3	Specific end use(s)	Fertiliser.	

8.0	Exposure controls/personal protection		
	The information in this section contains generic advice and guidance. The list of identified uses given in section 1 should be considered for any use-specific information provided in the Exposure Scenario(s).		
8.1	Control parameters		
	Regulated Exposure limit values	No specific EU official limit.	

Recommended occupational and consumer | Exposure pattern Derived No Effect Level (DNEL) exposure limit values (following from the Workers Oral Not applicable performed CSA): For Triple Superphosphate Dermal 17.4 mg/kg bw/day Inhalation 3.1mg/m3 The long-term DNEL is considered sufficient to ensure that effects from acute exposure to the substance do not occur. PNEC fresh water: 1.7 marine water: Intermittent Sewage 0.17 mg/l For Triple Superphosphate mg/l use/release: 17 treatment plant: mg/l 10 mg/l 8.2 Exposure controls Appropriate engineering measures Avoid high dust concentration and provide ventilation where necessary. When handling the product do not eat, drink or smoke. Wash hands after handling and before eating, smoking and Hygienic measures using the lavatory and at the end of the working period. Individual protection Respiratory system If dust concentration is high and/or ventilation is inadequate, use suitable dust mask or respirator with an appropriate filter (e.g. EN 143, 149, filters P1). Skin and body Working clothes. Hands Wear suitable gloves (e.g. plastic, rubber or leather) when handling the product over long periods. Eyes Use appropriate safety eye wear depending on the task being carried out. **Environmental exposure controls** Avoid the contamination of watercourses and drains and inform the appropriate authority in case of accidental contamination of watercourses. Do not flush into surface water or sanitary sewer system.

9.0	Physical and chemical properties		
	Appearance	Solid grey, red, or brown granules or prills unless deliberately coloured during manufacture.	
	Odour	Odourless.	
	Odour thrteshold	Not applicable	
	рН	Usually > 4.5	
	Melting point/freezing point	160-170°C depending on moisture content, ammonuim nitrate main component	
	Initial boiling point and boiling range	Decomposes.	
	Flash point	Not applicable, as the fertilizer is a mixture of inorganic solids	
	Flammability (solid, gas)	Not flammable	
	Upper/lower flammability or explosive limits	Not applicable	
	Explosive properties	Not determined	
	Auto-ignition temperature	Not determined	
	Decomposition temperature	May start to decompose above approx. 170°C.	
	Minimum ignition energy	Not applicable	
	Oxidising properties	Not classified as an oxidizer	
	Critical temperature	Not applicable	
	Relative density	Not applicable	
	Density	Not determined	
	Loose bulk density	Normally between 900-1200 kg/m³.	
	Vapour pressure at 20°C	Not applicable	

Vapour density	Not applicable
Partition coefficient (n-octanol/water)	Not applicable
Viscosity	Not applicable
Mean particle size	2-4mm approx.
Water solubility	Not applicable
Surface tension	Not surface active (based on molecular structure)
Other information	
Miscibility	Not applicable
Fat solubility	Not available
Gas group	Not applicable
Remarks	No further information available

10.0	Stability and reactivity		
10.1	Reactivity	Stable under recommended storage and handling conditions (see section 7, handling and storage).	
10.2	Chemaical stability	Stable under recommended storage and handling conditions (see section 7, handling and storage).	
10.3	Possibility of hazardous reactions	When heated can decompose.	
10.4	Conditions to avoid	Heating above 170°C (decomposes to gases). Contamination by incompatible materials. Unnecessary exposure to the atmosphere. Sources of heat or fire close to the product. Heating under confinement. Welding or hot work on equipment or plant which may have contained fertilizer without first washing thoroughly to remove all fertilizer.	
10.5	Incompatible materials	Combustible materials, reducing agents, acids, alkalis, sulphur, chlorates, chromates, nitrites, permanganates, metallic powders and substances containing metals such as copper, nickel, cobalt, zinc and their alloys.	
10.6	Hazardous decomposition products	For fire situation: see section 5. When strongly heated, it melts and decomposes releasing toxic fumes (e.g. NO _x , ammonia and other gases depending on composition) When in contact with alkaline material such as lime, may give off ammonia gas. See also Sections 2 and 9.	

11.0	oxicological information			
11.1	nformation on toxicological effects			
	Toxicokinetics, metabolism and distribution	Not available		
	Acute toxicity	Ingredients		
	Acute oral toxicity	Triple Superphosphate	LD50: > 2000 mg/kg bw	
	Acute dermal toxicity	LD50: > 5000 mg/kg bw		
	Acute inhalation toxicity Triple Superphosphate LC50: > 5 g/m³ (no guideline followed) Acute oral toxicity Potassium Chloride LD50: > 3020 mg/kg			
	Local effects			
	Skin irritation	Product	No critical or specific hazard	
	Eye irritation	Product	Irritating (OECD 405)	
	Sensitisation	Not consitizing (OECD 420, with triple	superphase and notassium chloride)	
		Not sensitizing (OECD 429, with triple superphosphate, and potassium chloride)		
	Other			
	Sub-acute toxicity	Oral 90-day NOAEL = 256 mg/kg bw/day (OECD 422, with triple superphosphate) Inhalation no specific data		
	Mutagenicity	No known significant effects or critical hazards.		
	Reproductive toxicity	No known significant effects or critical hazards.		
	Carcinogenicity	No known significant effects or critical hazards.		
	Remarks	Adverse health effects are considered unlikely when the product is handled and used correctly. If large quantities are ingested may give rise to gastro-intestinal disorders.		

12.0	Ecological information	

12.1	Toxicity				
	Triple Superphosphate	Fish	96-h Acute LC50: >85.9 mg/l, freshwater, (OECD 203).		
		Daphnia magna	72-h Acute LC50: 1.790 mg/l, aquatic invertebrates - Water flea.		
		Algae	72-h Acute EC50: > 87.6 mg/l, aqatic plants - Algae.		
		Inhibition of microbial activity	No data.		
	Potassium Chloride	Fish	LC50: 880 mg/l, species Pimephales Promelas, (fathead minnow), 96 hour period, OECD Test Guideline 203.		
		Daphnia magna	EC50: 440 - 880 mg/l, species Dapnia Magna, (water flea), 48 hour period, OECD Test Guideline 202.		
		Algae	EC50: >100 mg/l, species Desmodesmus Subspicatus, (green algae), 72 hour period, OECD Test Guideline 201.		
		Bacteria	EC50: >1000mg/l, activated sludge, 3 hour period, OECD Test Guideline 209.		
12.2	Persistence and degradability	Ingredient name	Triple Superphosphate		
	Biodegradation	on Standard test is not applicable as the mixture is inorganic.			
	Hydrolysis	No hydrolysable group is present, will completely dissociate into ions.			
12.3	Bioaccumulative potential	Octanol-water partition coefficient (Kow)	Not relevant as the mixture is inorganic, but considered to be low (based on high water solubility)		
		Bioconcentration factor (BCF)	Low potential for bioaccumulation (based on main ingredient properties).		
12.4	Mobility in soil	Low potential for adsorption (based or	n main ingredient properties)		
12.5	Results of PBT and vPvB assessment	Not applicable			
12.6	Other adverse effects	Heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters.			

13.0	Disposal considerations			
	Container	Containers should be cleaned by appropriate method and then re-used or disposed by landfill or incineration as appropriate, in accordance with local and national regulations. Do not remove label until container is thoroughly cleaned.		
	Methods of disposal	Depending on degree and nature of contamination dispose of by use as fertilizer on farm, as raw material for liquid fertilizer, or to an authorised waste facility. Do not empty into drains; dispose of this material and its container in a safe way and in accordance with all applicable local and national regulations. See chapters 06 03 and 06 10 of the list of wastes (Commission decision 2000/532/EC)		
	Package waste disposal	Empty the bag by shaking to remove as much as possible of its contents. If approved by local authorities, empty bags may be disposed of as non-hazardous material or returned for recycling.		
	Note: see section 7 for safe handling	and storage		

14.0	Transport information					
		ADR/RID	ADN/ADNR	IMDG	ICAO/IATA	
14.1	UN Number	Not classified	Not classified	Not classified	Not classified	
14.2	UN Proper shipping name	Fertilizer	Fertilizer	Fertilizer	Fertilizer	
14.3	Transport hazard class(es)	Not classified	Not classified	Not classified	Not classified	
14.4	Packing group	Not applicable	Not applicable	Not applicable	Not applicable	
	Label	Not applicable	Not applicable	Not applicable	Not applicable	
14.5	Environmental hazards	Not applicable.				
14.6	Special precautions for user	None.				
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.				

15.0	Regulatory information				
	Safety, health and environmental regulation/legislation specific for the substance or mixture	None applicable			
		Regulation EC 1907/2006 (REACH), EC 2003/2003, 96/82 EC. Decision No 1348/2008/EC of the European Parliament & of the Council and Commission Regulation (EC) No 552/2009.			
15.2	1	In accordance with REACH Article 14, a Chemical Safety Assessment has been carried out for the main ingredient Triple Superphosphate as a substance.			

O Other information					
The information given is designed only as guida to be considered a warranty or quality specificat	The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not obe considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text.				
Classification in accordance with Regulation 1272/2008, as listed in Annex VI:	None.				
Classification in accordance with Regulation 1272/2008, by self-classification based on the performed CSA	Eye Dam. Irrit. 1, H318 - causes serious eye damage.				
Risk phrases	R41 Risk of serious damage to eyes.				
Symbols	Xi irritant				
Abbreviations and acronyms	Eye irritation Category 2 (Eye Irrit. 2) Causes serious eye irritation (H319)				
Training advice					
Date of previous SDS	September 2014				
Modifications in this version	None.				

Disclaimer

The information in this Safety Data Sheet is given in good faith and belief in its accuracy based on our knowledge of the substance/preparation concerned at the date of publication. It does not imply the acceptance of any legal liability or responsibility whatsoever by Glasson Fertilizers for the consequences of its use or misuse in any particular circumstances.

Glasson Fertilisers

West Quay, Glasson Dock

Lancaster

LA2 0DB

