

Product Safety Data Sheet

Conforms to REGULATION (EU) No. 453/2010



Group Number	N/A
Version	1.0
Issue Date	Jun-15
Last Updated	Jan-24

NPK 13-10-20 + 12.5% SO₃ Granular Compound

1.0	Identification of the substance/mixture and of the company/undertaking	
1.1	Product Identifier	
	Product/Trade name	NPK 13-10-20 + 12.5%SO ₃ Granular Compound / Nitrophoska 13-10-20
	Common chemical name	NPK fertilizer, compound fertilizer
	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 sheet	
	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)
2	Hazards identification	
2.1	Classification of the substance or mixture	
	Classification in accordance with Regulation 1272/2008 (CLP)	Serious eye damage/eye irritation - 2, H319
	Hazard Statement(s)	H319 - Serious eye damage/eye irritation
	Classification in accordance with Directive 67/548 (DSD)	Xi;R41
	Risk phrase(s)	R41 - Risk of serious damage to eyes
2.2	Label elements	
	Hazard pictogram(s)	
	Signal word	Warning
	Hazard Statement(s)	H319 - causes serious eye irritation
	Precautionary statement(s)	P337+P313 If eye irritation persists: Get medical advice/attention P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P280 Wear eye protection/face protection P264 Wash hands thoroughly after handling.
2.3	Other hazards	
	PBT/vPvB criteria	Components of fertilizers do not meet the criteria neither for a PBT nor a vPvB substance.

Other hazards which do not result in classification									
Physical and chemical hazards	Fertilizers are basically harmless products when handled correctly. However, the following points should be noted for fire, heating and detonation: The fertilizer is not itself combustible but it can support combustion, even in the absence of air. On heating it melts and further heating can cause decomposition, releasing toxic fumes containing nitrogen oxides, ammonia and other gases depending on composition. It has high resistance to detonation. Heating under strong confinement can lead to explosive behaviour.								
Health hazards	<table border="0"> <tr> <td>Skin effect</td> <td>Longer contact may cause skin irritation.</td> </tr> <tr> <td>Eyes effect</td> <td>Longer contact may cause eye irritation.</td> </tr> <tr> <td>Swallowing</td> <td>There is no toxic effect when ingesting small amounts. Ingestion of a high amount leads to gastrointestinal discomforts.</td> </tr> <tr> <td>Inhalation</td> <td>High concentration of wafting dust may cause nose irritation and irritation of the upper respiratory tract and produce symptoms like sore throat and cough.</td> </tr> </table>	Skin effect	Longer contact may cause skin irritation.	Eyes effect	Longer contact may cause eye irritation.	Swallowing	There is no toxic effect when ingesting small amounts. Ingestion of a high amount leads to gastrointestinal discomforts.	Inhalation	High concentration of wafting dust may cause nose irritation and irritation of the upper respiratory tract and produce symptoms like sore throat and cough.
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Inhalation	High concentration of wafting dust may cause nose irritation and irritation of the upper respiratory tract and produce symptoms like sore throat and cough.								
Environmental hazards	Because fertilizers contain phosphates, in case of large scatterings unfavourable influence on environment is possible by eutrophication of inland waters (See section 12).								

3 Composition/information on ingredients						
Mixture						
Chemical name	CAS no.	EC no.	Generic REACH Reg No.)	Classification Regulation (EC) No. 1272/2008	Classification Directive 67/548/EEC	% (w/w)
Ammonium Chloride	12125-02-9	235-186-4	01-2119487950-27-0001	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	-	Variable
Calcium Fluoride	7789-75-5	232-188-7	01-2119491248-30-0000	-	-	Variable
EC no. means EINECS or ELINCS number.						
<i>This safety data sheet is not a guarantee of product specification or NPK value(s). NPK content is specified on sales orders, customer invoices, or product specifications.</i>						

4.0 First aid measures											
4.1 Description of first aid measures											
	<table border="0"> <tr> <td>General</td> <td>Show this safety data sheet to the doctor in attendance</td> </tr> <tr> <td>Inhalation</td> <td>Remove to fresh air</td> </tr> <tr> <td>Ingestion</td> <td>Clean mouth with water and drink afterwards plenty of water. Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.</td> </tr> <tr> <td>Skin contact</td> <td>IF ON SKIN: Gently wash with plenty of soap and water. Consult a doctor if necessary</td> </tr> <tr> <td>Eye contact</td> <td>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists</td> </tr> </table>	General	Show this safety data sheet to the doctor in attendance	Inhalation	Remove to fresh air	Ingestion	Clean mouth with water and drink afterwards plenty of water. Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.	Skin contact	IF ON SKIN: Gently wash with plenty of soap and water. Consult a doctor if necessary	Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists
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4.2 Most important symptoms and effects, both acute and delayed											
Acute effects	May cause redness and tearing of the eyes. Burning sensation										
Delayed effects	None known.										
4.3 Indication of any immediate medical attention and special treatment needed											
Note to physician	Aspiration may cause pulmonary edema and pneumonitis. Dust contact with the eyes can lead to mechanical irritation. Treat symptomatically.										

5.0 Fire-fighting measures		
5.1 Extinguishing media		
	Suitable extinguishing media	Water spray or fog. Flood fire area with large quantities of water, while knocking down vapours with water fog. If insufficient water supply: knock down vapours only.
	Unsuitable extinguishing media	CO ₂ , dry chemical, dry sand, alcohol-resistant foam. Do not scatter spilled material with high pressure water stream.
5.2	Special hazards arising from the substance or mixture	May emit toxic fumes under fire conditions.
	Hazardous combustion products	Carbon oxides. Ammonia. Nitrogen oxides (NO _x)
5.3	Advice for firefighters	
	Special fire fighting procedures	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Cool containers with flooding quantities of water until well after fire is out. DO NOT GET WATER INSIDE CONTAINERS. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6.0 Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
6.2	Environmental precautions	See Section 12 for additional Ecological Information.
6.3	Methods and material for containment and cleaning up	Prevent further leakage or spillage if safe to do so. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4	Reference to other sections	See section 8 for more information. See section 13 for more information.

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	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.
	General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
7.2	Conditions for safe storage, including any incompatibilities	Keep in a dry, cool and well-ventilated place. Partly used or damaged bags should be closed well. Protect from moisture
7.3	Specific end use(s)	Fertiliser. Keep out of reach of children Keep persons and animals off treated areas Keep away from food, drink and animal feedingstuffs. Protect from direct contact with water or excessive moisture.

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				
Exposure Limits	Ammonium Chloride		Calcium Fluoride	
	12125-02-9		7789-75-5	
	TWA: 10 mg/m ³ STEL: 20 mg/m		TWA: 2.5 mg/m ³ STEL: 7.5 mg/m ³	
Biological Occupational Exposure Limits	Ammonium Chloride		Calcium Fluoride	
	12125-02-9		7789-75-5	
	-		-	
DNEL for Workers	Oral	Dermal	Inhalation	
Monoammonium Phosphate	-	8.3 mg/kg bw/day [4] [6]	5.9 mg/m ³ [4] [6]	
Potassium Chloride	-	303 mg/kg bw/day [4] [6] 910 mg/kg bw/day [4] [7]	1064 mg/m ³ [4] [6] 5320 mg/m ³ [4] [7]	
Calcium Sulphate	-	-	21.17 mg/m ³ [4] [6] 5082 mg/m ³ [4] [7]	
Calcium Fluoride	-	-	5 mg/m ³ [4] [6]	
Glycerides	-	63.75 mg/kg bw/day [4] [6]	-	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	0.97 mg/kg bw/day [4] [6]	2.73 mg/m ³ [4] [6] 5.58 mg/m ³ [5] [6]	
Amines C16-18-alkyl	-	-	0.38 mg/m ³ [4] [6] 1 mg/m ³ [5] [6] 1 mg/m ³ [5] [7]	

Notes	[4] Systemic health effects	[5] Local health effects	[6] Long term	[7] Short term		
DNEL for General Public	Oral	Dermal	Inhalation			
Monoammonium Phosphate	0.42 mg/kg bw/day [4] [6]	-	1.45 mg/m3 [4] [6]			
Potassium Chloride	91 mg/kg bw/day [4] [6] 455 mg/kg bw/day [4] [7]	910 mg/kg bw/day [4] [6] 910 mg/kg bw/day [4] [7]	273 mg/m3 [4] [6] 1365 mg/m3 [4] [7]			
Calcium Sulphate	1.52 mg/kg bw/day [4] [6] 11.4 mg/kg bw/day [4] [7]	-	5.29 mg/m3 [4] [6] 3811 mg/m3 [4] [7]			
Calcium Fluoride	0.02 mg/kg bw/day [4] [6]	-	1 mg/m3 [4] [6]			
Distillates (petroleum), solvent-dewaxed heavy paraffinic	0.74 mg/kg bw/day [4] [6]	-	1.19 mg/m3 [5] [6]			
Amines C16-18-alkyl	40 µg/kg bw/day [4] [6]	-	0.035 mg/m3 [4] [6]			
Notes	[4] Systemic health effects	[5] Local health effects	[6] Long term	[7] Short term		
PNEC	Freshwater	Freshwater (intermittent release)	Marine Water	Marine Water (intermittent release)		
Potassium Chloride	0.1 mg/L	1 mg/L	0.1 mg/L	-		
Calcium Fluoride	0.37 mg/L	0.17 mg/L	0.0216 mg/L	-		
Glycerides	0.1 mg/L	-	0.01 mg/L	-		
Amines C16-18-alkyl	0.26 µg/L	1.6 µg/L	0.026 µg/L	-		
PNEC	Freshwater Sediment	Marine Sediment	Sewage Treatment	Soil	Food Chain	Air
Potassium Nitrate	-	-	18 mg/L	-	-	-
Monoammonium Phosphate	-	-	10 mg/L	-	-	-
Potassium Chloride	-	-	10 mg/L	-	-	-
Calcium Sulphate	-	-	100 mg/L	-	-	-
Calcium Fluoride	-	-	104.75 mg/L	21.8 mg/kg soil dw	-	-
Glycerides	-	-	10 mg/L	-	-	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	-	-	-	9.33 mg/kg food	-
Amines C16-18-alkyl	3.76 mg/kg sediment dw	0.376 mg/kg sediment dw	550 µg/L	10 mg/kg soil dw	-	-
8.2 Exposure controls						
Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.					
Personal Protective Equipment						
Eye/Face Protection	Use eye protection according to EN 166. If splashes are likely to occur, wear safety glasses with side-shields					
Hand Protection	Rubber gloves. Nitrile rubber. Butyl rubber. Impervious gloves. Wear suitable gloves tested to EN 374.					
Skin and Body Protection	Wear suitable protective clothing.					
Respiratory Protection	Half-face mask. (FFP1). (FFP2). Recommended filter type: Particulates filter conforming to EN 143.					
Thermal Hazards	No information available.					
Other Protective Equipment	No information available.					
General Hygiene Considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.					
Environmental Exposure Controls	Avoid creating dust. Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Keep out of drains, sewers, ditches and waterways.					

9.0 Physical and chemical properties	
Appearance	Grey, or brown granules unless deliberately coloured during manufacture.
Initial boiling point and boiling range	No data available
Flash point	No data available
Flammability (solid, gas)	No data available
Explosive properties	No explosive properties
Auto-ignition temperature	400°C
Oxidising properties	No data available
Vapour pressure at 20°C	No data available
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available

Mean particle size	3mm approx.
Water solubility	Soluble in water at 20°C
Surface tension	No data available
Other information	No other information

10.0 Stability and reactivity	
10.1 Reactivity	None under normal processing. Do not expose to sudden shock or sources of heat.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None under normal processing.
10.4 Conditions to avoid	See section 7 for more information.
10.5 Incompatible materials	Organic material.
10.6 Hazardous decomposition products	Nitrogen oxides (NOx). Carbon dioxide (CO2). Ammonia. Hydrogen cyanide. Chlorine.

11.0 Toxicological information	
11.1 Information on toxicological effects	
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract
Eye Contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin Contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May be harmful if swallowed.
Acute toxicity	Ammonium Chloride Calcium Fluoride
Acute oral toxicity	= 1410 mg/kg (Rat) = 4250 mg/kg (Rat)
Acute dermal toxicity	> 2000 mg/k -
Acute inhalation toxicity	- > 5070 mg/m3 (Rat)
Local effects	
Skin irritation	May cause skin irritation.
Serious eye damage/eye irritation	Not irritating
Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - Single exposure	No information available.
STOT - repeated exposure	No information available.

12.0 Ecological information	
12.1 Toxicity	Harmful to aquatic life. Contains 0.12 % of components with unknown hazards to the aquatic environment.
Algae/aquatic plants	ammonium chloride -
Fish	ammonium chloride LC50: =209mg/L (96h, Cyprinus carpio)
Toxicity to aquatic micro- organisms	ammonium chloride -
Crustacea	ammonium chloride -
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	No information available.

12.5	Results of PBT and vPvB assessment	Main fertilizer components are neither PBT nor vPvB substances.
12.6	Other adverse effects	No data

13.0 Disposal considerations	
Waste from residues/unused products	Controlled application to agricultural soil. Fertiliser.
Contaminated packaging	Do not reuse empty containers.
Waste codes according to EWC	Waste codes should be assigned by the user based on the application for which the product was used.
Other information	European Waste Catalogue. Fertiliser.
<i>Note: see section 7 for safe handling and storage</i>	

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	Not applicable.				

15.0 Regulatory information		
15.1	Safety, health and environmental regulation/legislation specific for the substance or mixture	Regulation (EU) 2019/1009 of the European Parliament and of the Council of 5 June 2019 laying down rules on the making available on the market of EU fertilising products
	Provisions for explosives precursors	This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.
15.2	Chemical safety assessment	For information on the safe use of this product, see sections 7 and 8 of this safety data sheet.

16.0 Other information	
	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 to be 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.
Training advice	Employees should be trained in the proper mixture handling. Read the safety data sheet before use.
Date of previous SDS	September 2014
Modifications in this version	None.
References	

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 Fertilisers for the consequences of its use or misuse in any particular circumstances.

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