Product Safety Data Sheet

Conforms to REGULATION (EU) No. 453/2010

Group Number	**N/A**
Version	**1**
Issue Date	**May-18**
Last Updated	**Nov-23**

Stabur® Urea

1.0	**Identification of the substance/mixture and of the company/undertaking**	
1.1	**Product Identifier**	
	Product/Trade name	Glasson Fertilisers Stabur® Urea 46%N treated with Limus Inhibitor
	Common chemical name	Urea fertilizer
	Synonyms	Not applicable.
	Chemical formula	Not applicable.
	EU index number	Not applicable.
	EC No	200-315-5
	CAS No.	57-13-6
	REACH Registration Number.	01-2119463277-33
	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, Anti-freezing agents, food/feedstuff additives, pH-regulating agents
	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)	Non-hazardous
	Hazard Statement(s)	Not applicable
	Classification in accordance with Directive 67/548 (DSD)	Not applicable
	Risk phrase(s)	Not applicable
2.2	**Label elements**	
	Hazard pictogram(s)	None
	Signal word	Not applicable
	Hazard Statement(s)	None
	Precautionary statement(s)	None
2.3	**Other hazards**	
	PBT/vPvB criteria	The product is not considered to be a PBT. The product is not considered to be a vPvB. This substance/mixture contains no components considered to be either persistent, bioaccumula tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
	Other hazards which do not result in classification	
	Toxicological Information	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

	Health hazards	The fertilizers are basically harmless products when handled correctly. However, 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; mucous membranes and upper respiratory tract with symptoms such as sore throat and coughing. Prolonged eye contact may cause some irritation. Persons who may have inhaled hazardous decomposition nitrous gases must be laid down and kept rested. Call a doctor immediately. Persons who have inhaled fire effluents require medical observation for at least 48 hours. Symptoms of poisoning may even occur several hours after the incident.
	Ecological Information	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regu lation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

3 Composition/information on ingredients

Mixture

Chemical name	CAS no.	EC no.	Generic REACh Reg No.)	Classification Regulation (EC) No. 1272/2008	% (w/w)
Urea	57-13-6	200-315-5	01-2119463277-33	-	Variable
Reaction mass of N- butylphosphorothioic and N propylphosphorothioic	Not assigned	Not assigned	01-2119462834-32	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 3; H412	>= 0,1 - < 0,25
Aziridine, homopolymer	9002-98-6	Not assigned	Not assigned	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 0,1 - < 0,25

EC no. means EINECS or ELINCS number.

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.

4.0 First aid measures

4.1 Description of first aid measures

General	When symptoms persist or in all cases of doubt seek medical advice. Remove contaminated clothing and shoes and launder thoroughly before reusing. Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.
Inhalation	Remove affected person from the immediate area. Ensure supply of fresh air.
Ingestion	Rinse mouth with water. If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person
Skin contact	Wash off with soap and water. Call a physician if irritation persists.
Eye contact	Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). In case of irritation consult an ophthalmologist

4.2 Most important symptoms and effects, both acute and delayed

Acute effects	None known.
Delayed effects	None known.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician	No data available.

5.0	Fire-fighting measures	
5.1	Extinguishing media	
	Suitable extinguishing media	Carbon dioxide (CO_2) Dry powder Water spray jet Alcohol-resistant foam
	Unsuitable extinguishing media	High volume water jet
5.2	Special hazards arising from the substance or mixture	
	Specific hazards	Where combustible material is the source of the fire, extinguish this source as a matter of priority. Do not allow molten fertilizers to run into drains. If fire run-off water enters any water course or drains, inform the appropriate water authority immediately
	Hazardous thermal decomposition and combustion products	In the event of fire, the following can be released: Nitrogen oxides (NOx), Carbon dioxide (CO_2), Carbon monoxide, Ammonia
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 self-contained breathing apparatus. Wear protective clothing.

6.0	Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures	Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation. Evacuate personnel to safe areas.
6.2	Environmental precautions	Do not discharge into the drains/surface waters/groundwater.
6.3	Methods and material for containment and cleaning up	Use mechanical handling equipment. Avoid raising dust. Do not flush with water or aqueous cleaning agents.
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	Ensure adequate ventilation, local exhaust at the work station if necessary. Avoid the formation and deposition of dust.
	Advice of protection against fire and explosion	Keep away from heat and sources of ignition. Dust can form an explosive mixture with air.
	Hygiene measures	When using do not eat or drink. Use barrier skin cream. Clean skin thoroughly after work; apply skin cream. Ensure that eye flushing systems and safety showers are located close to the working place. Do not breathe dust.
7.2	Requirements for storage areas and containers	Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Containers which are opened must be carefully closed and kept upright to pre vent leakage. Always keep in containers of same material as the original.
	Advice on common storage	Substances to be avoided, please see section 10
	Storage class (TRGS 510)	11, Combustible Solids
	Recommended storage temperature	-20 - 30 °C
	Packaging material	Suitable material: Polyethylene
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	Contains no substances with occupational exposure limit values				
	Recommended occupational and consumer exposure limit values (following from the performed CSA):	**Substance**	**End Use**	**Exposure Routes**	**Potential Health Effects**	**Value**
		Urea	Workers	Inhalation	Short-term exposure, Acute effects, Systemic effect	292 mg/m3
			Workers	Inhalation	Long-term exposure, Chronic effects, Systemic effect	292 mg/m3
			Workers	Dermal	Short-term exposure, Acute effects, Systemic effect	580 mg/kg bw/day
			Workers	Dermal	Long-term exposure, Chronic effects, Systemic effect	580 mg/kg bw/day

			Consumers	Inhalation	Short-term exposure, Acute effects, Systemic effects	125 mg/m3
			Consumers	Inhalation	Long-term exposure, Chronic effects, Systemic effects	125 mg/m3
			Consumers	Dermal	Short-term exposure, Acute effects, Systemic effects	580 mg/kg bw/day
			Consumers	Dermal	Long-term exposure, Chronic effects, Systemic effects	580 mg/kg bw/day
			Consumers	Oral	Short-term exposure, Acute effects, Systemic effects	42 mg/kg bw/day
			Consumers	Oral	Long-term exposure, Chronic effects, Systemic effects	42 mg/kg bw/day
	PNEC For Urea	fresh water: 0.47 mg/l	marine water: 0.047 mg/l	Intermittent use/release: not given	Sewage treatment plant: not given	

8.2 Exposure controls

Appropriate engineering measures
Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

Hygienic measures
When handling the product do not eat, drink or smoke. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the working period.

Individual protection

Respiratory system
If workplace exposure limits are exceeded, respiratory protec tion approved for this particular job must be worn.
In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Skin and body
Chemical-resistant work clothes

Hands
In case of intensive contact, wear protective gloves (EN 374).Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eyes
Safety glasses (EN 166)

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	Orange granules or prills unless deliberately coloured during manufacture.
	Odour	Ammonia-like
	Odour thrteshold	No data available
	pH	8-10. Concentration 10%. (Source: supplier)
	Melting point/freezing point	134°C (Source: supplier)
	Initial boiling point and boiling range	No data available
	Flash point	Not applicable
	Flammability (solid, gas)	Not flammable
	Upper/lower flammability or explosive limits	Not applicable
	Explosive properties	Product does not present an explosion hazard
	Auto-ignition temperature	No data available
	Decomposition temperature	180-190°C. (Source: supplier)
	Relative density	0.65-1.35. (Source: supplier)
	Density	No data available
	Loose bulk density	Normally between 750-900 kg/m^3
	Vapour pressure at 20°C	< 0.0000002kPa (25°C) (Source: supplier)

	Vapour density	No data available
	Partition coefficient (n-octanol/water)	No data available
	Viscosity	No data available
	Mean particle size	2-5mm approx.
	Water solubility	624g/l (Source: supplier)
	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	**Chemical stability**	Stable under recommended storage and handling conditions (see section 7, handling and storage).
10.3	**Possibility of hazardous reactions**	None, when used as directed
10.4	**Conditions to avoid**	Temperatures > 130°C Moisture Heat, naked flames and other ignition sources
10.5	**Incompatible materials**	Oxidizing agents Strong acids Strong bases
10.6	**Hazardous decomposition products**	None if stored, handled and transported properly.

11.0	**Toxicological information**		
11.1	**Information on toxicological effects**		
	Toxicokinetics, metabolism and distribution	Not available	
	Acute toxicity	Ingredients	
	Acute oral toxicity	Urea	LD50 (Rat): 2.000 mg/kg Method: OECD Test Guideline 423 Remarks: Source: ECHA Acute toxicity estimate: 2.000 mg/kg
	Acute dermal toxicity	Urea	LD50 (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402 Remarks: Source: ECHA
	Local effects		
	Skin irritation	Product	Not classified based on available information Reaction mass of N- butylphosphorothioic and N-propylphosphorothioic Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Source: ECHA
	Eye irritation	Product	No irritating effect. Components: Reaction mass of N- butylphosphorothioic and N-propylphosphorothioic Species : Rabbit Method : OECD Test Guideline 405 Result : irritant Remarks : Source: ECHA
	Sensitisation	Not classified based on available information	
	Other		
	Mutagenicity	Not classified based on available information	
	Reproductive toxicity	Not classified based on available information	
	Carcinogenicity	Not classified based on available information	
	Remarks	Adverse health effects are considered unlikely when the product is handled and used correctly.	

12.0	**Ecological information**		
12.1	**Toxicity**	Contains no substances known to be hazardous to the environment.	
	Urea	Fish	LC50: 6810mg/l, species Leuciscus Idis, (Orfe), 96 hour period.
		Daphnia magna	LC50; 10000 mg/l, species Daphnia Magna, (water flea), 48 hour period.
	Reaction mass of N-butylphosphorothioic and N-propylphosphporothioic	Fish	LC50: (Danio rerio (zebra fish)): > 120 mg/l, 96 hour period
		Daphnia magna	EC50 (Daphnia magna (Water flea)): 19 mg/l, 48 hour period
12.2	**Persistence and degradability**	Urea	Reaction mass of N-butylphosphorothioic and N-propylphosphorothioic

	Biodegradation	Standard test is not applicable as the mixture is inorganic.	Result: Not readily biodegradable. Biodegradation: 10 - 20 %. Exposure time: 28 d. Method: OECD Test Guideline 301A. Remarks: Source: ECHA
	Hydrolysis	No hydrolysable group is present, will completely dissociate into ions.	No data available
12.3	**Bioaccumulative potential**	Urea	Reaction mass of N-butylphosphorothioic and N-propylphosphorothioic
	Octanol-water partition coefficient (Kow)	Not relevant as the mixture is inorganic, but considered to be low (based on high water solubility)	log Pow: 0,7 Method: OECD Test Guideline 117 Remarks: Source: ECHA
12.4	**Mobility in soil**	Urea; Soluble in water. Predicted to have a high mobility in soil. No further relevant information available.	
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	
	Product	Dispose of according to all applicable regulations upon con sultation of the local competent authorities and the disposer in a suitable and authorised disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company. Avoid discharge to drain or surface water.
	Package waste disposal	Residuals must be removed from packaging and when emp tied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.
	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**	Not applicable	Not applicable	Not applicable	Not applicable	
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	
15.1	**Safety, health and environmental regulation/legislation specific for the substance or mixture**	None applicable
	Other regulations	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	**Chemical safety assessment**	In accordance with REACH Article 14, a Chemical Safety Assessment has been carried out for the main ingredient Urea as a substance.

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.	
	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	Not classified.
	Risk phrases	None.
	Symbols	None.
	Abbreviations and acronyms	Full text of H-Statements H302 : Harmful if swallowed. H317 : May cause an allergic skin reaction. H318 : Causes serious eye damage. H319 : Causes serious eye irritation.
	Training advice	
	Date of previous SDS	September 2014
	Modifications in this version	None.
	References	EFMA/Fertilizers Europe Guidance documents, TFI HPV data; NOTOX gap analysis

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.

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