

Safety Data Sheet Conforms to REGULATION (EU) No. 453/2010

Version: Issue date:

Revision 1 06/08/21

GROUP 4

NPK/NP/NK (< 70% AN)

		ture and of the company/undertaking
1.1	Product Identifier	T
	Product/Trade name	Ammonium nitrate based compounds or blended fertilizers, NPK/NP/NK containing <70% ammonium nitrate). As indicated on packaging by PSDS Group 4 marking and nutrient inclusion.
	Common chemical name	AN based NPK, compound/blended fertilizer, complex fertilizer, NP fertilizer, NK fertilizer
	Synonyms	N/A Mixture
	Chemical formula	N/A Mixture
	EU index number (Annex 1)	N/A Mixture
	EC No	N/A Mixture
	CAS No.	N/A Mixture
	REACH Registration Number.	N/A Mixture
	National Product Registration	N/A
	Number,	
	where applicable	
1.2	Relevant identified uses of the subs	tance or mixture and uses advised against
	Use of the substance/mixture	Fertilizer
	Uses advised against	All non-agricultural fertilizer use.
1.3	Details of the supplier of the safety	data sheet
	Manufacturer/Importer/Supplier	Manufacturer
		Company name: Mole Valley Forage Services Ltd .
		Full address: 8 shed, North side, South dock, Alexandra dock, Newport, Gwent, NP20 2NP
		Tel: 01769 576450
	Email address of the person responsible for SDS	Email address: reece.woolgar@mvfs.co.uk
1.4	Emergency telephone number	Tel; 01769 576227
		Out of hours; 07814 284067
2	Hazards identification	
	Classification of the substance or m	ixture
	Classification in accordance with Regulation 1272/2008 (CLP)	Non-hazardous.
	Hazard Statement(s)	Not applicable
	Classification in accordance with	Not applicable
	Directive 67/548 (DSD)	
	Risk phrase(s)	Not applicable
2.2	Label elements	
	Hazard pictogram(s)	None.
	Signal word	Not applicable
	Hazard Statement(s)	None.

	Precautionary Statements	P210 P220 P280 P370+P378 P305+P351+ P338 P337+P313 P221 P264	 Keep away from heat, sparks, open flames & hot surfaces. — No smoking. Keep/Store away from combustible materials & chemicals. Wear eye protection. In case of fire: Use copious quantities of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Take any precautions to avoid mixing with combustibles/. Wash hands thoroughly after handling.
2.3	Other hazards	F 204	
	PBT/vPvB criteria	According to A	nnex XIII of Regulation (EC) No 1907/2006, no PBT and vPvB assessment has been
	r biy vr vb cintena	-	ce ammonium nitrate is inorganic.
	Other hazards which do not result in	classification	
	Physical and chemical hazards	However, the f The fertilizer is On heating it n containing nitr	basically harmless products when handled correctly. Following points should be noted for fire, heating and detonation: a not itself combustible but it can support combustion, even in the absence of air. nelts and further heating can cause decomposition, releasing toxic fumes rogen oxides, ammonia and sulphur and other gases depending on composition. It ance to detonation. Heating under strong confinement can lead to explosive
	Health hazards	repeated conta gastro-intestin	are basically harmless products when handled correctly. However, prolonged or act with skin may cause discomfort, ingestion of large quantities may give rise to al disorders and inhalation of dust at high concentrations may cause irritation of upper respiratory tract with symptoms such as sore throat and coughing. There are g term effects.
	Environmental hazards		of nitrate and phosphate may cause adverse environmental impact such as in confined surface waters or nitrate contamination. See Section 12.

Mixture						
Hazardous ingredients						
Chemical name	CAS no.	EC no.	Generic REACH Reg No.)	Classification Regulation (EC) No. 1272/2008	Classification Directive 67/548/EEC	% (w/w)
Ammonium nitrate	6484-52-2	229-347-8		Ox. Sol 3, H272	O; R8, Xi; R36	<70%
Other ingredients						
Calcium Carbonate and/or (*)	471-34-1	207-439-9				Variable
(*) Dolomite	16389-88-1	240-440-2				Variable
Di-ammonium phosphate	7783-28-0	231-987-8	01-2119490974- 22-0014			Variable
Potassium Chloride	7447-40-7	231-211-8				Variable
Ammonium Sulphate	7783-20-2	231-984-1	01-2119455044- 46			Variable
Limestone	1317-65-3	215-279-6				Variable

1.0	First aid measures	
1.1	Description of first aid measures	
	General	In some cases medical attention necessary (see below).
	Inhalation	Remove from source of exposure to dusts to fresh air.
		Obtain medical attention if ill effects occur.
	Ingestion	Do not induce vomiting unless directed to do so by medical personnel.
		Rinse mouth and then give water or milk to drink.
		Obtain medical attention if more than a small quantity has been swallowed.
		NOTE; never give an unconscious person anything to drink.
	Skin contact	Wash the affected area with water.
	Eye contact	Flush/irrigate eyes, including under the eyelids, with copious amounts of water for at least 15
		minutes.
		Remove contact lenses if present and easy to do so. Continue rinsing.
		Obtain medical attention if symptoms persist.
1.2	Most important symptoms and effect	ts, both acute and delayed
	Acute effects	None known.
	Delayed effects	None known.
1.3	Indication of any immediate medical	attention and special treatment needed
	Note to physician	Inhalation of fire and thermal decomposition gases, containing oxides of nitrogen, ammonia an
		sulphur and other toxic gases can cause irritation and corrosive effects on the respiratory syster
		Some lung effects may be delayed. Give oxygen, especially if there is blueness around the mout

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5.1	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
		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 sub	 stance or mixture
	Specific hazards	Potential explosion hazard under fire conditions when severely confined and/or contaminted with incompatible materials (e.g. organic materials, halogenated compounds - see Section 10). Do not allow molten fertilizers to run into drains.
	Hazardous thermal decomposition and combustion products	Oxides of nitrogen, sulphur, ammonia and depending on composition HCl etc.
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	
6.1	Personal precautions, protective	Avoid walking through spilled product and exposure to dust.
	equipment and emergency	
	procedures	
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.
6.3	Methods and material for	Any spillage of fertilizer should be cleaned up promptly, swept up and placed in a clean labelled
	containment and cleaning up	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	
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,	Store in compliance with national and local regulations.
	including any incompatibilities	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 stack 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)	As a fertilizer.

Exposure controls/personal protection	n					
Control parameters	70					
Regulated Exposure limit values	No specific EU o	official limit.				
Recommended occupational and	UK EH40 Workp	olace Exposure Lim	its, (WEL's),			
consumer exposure limit values	Components.		Type.		Value.	Form.
(following from the performed CSA):	Limestone (CAS	1317-65-3). TWA	, (Time Weighted	Average.	4mg/m3	Respirable
For Ammonium nitrate					4mg/m3 10mg/m3 10mg/m3	Respirable Dus Inhalable Inhalable Dus
	Exposure patter	rn Derived No Effe	ct Level (DNEL)			
	Oral No	Workers t applicable	General pop			
		3 mg/kg bw/day	12.8 mg/kg bw/day 12.8 mg/kg bw/day			
	Inhalation 37.6 The long-term I substance do ne	DNEL is considered	11.1 mg/m3 sufficient to ensu	re that effects	from acute exp	posure to the
PNEC	fresh water; mg/l	marine water; mg/l	Intermittent use/release; mg/l	Sewage treatment plant; mg/l	Freshwater sediment mg/kg/dw	Soil mg/kg/dw
Ammonium nitrate	0.45	0.045	4.5	18	Not given	Not given
Di-ammonium phosphate	1.7	0.17	17	10	Not given	Not given
Potassium Chloride	Not given	Not given	Not given	Not given	Not given	Not given
Ammonium Sulphate	0.312	0.0312	0.53	16.18	3	62.6
Limestone	Not given	Not given	Not given	Not given	Not given	Not given

8.2	Exposure controls	
	Appropriate engineering measures	Avoid high dust concentration and provide ventilation where necessary. Risk of inhalation must be minimised as much as possible.
	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	
		If dust concentration is high and/or ventilation is inadequate, use suitable dust mask or respirator with an appropriate filter; EN 136, EN 140, EN143, EN149, Filters P2
	Skin and body	Working clothes.
	Hands	Wear suitable gloves (e.g. plastic, rubber or leather) when handling the product over long periods.
		Use appropriate safety eye wear depending on the task being carried out. Wear safety glasses with side protection or safety goggles, (EN166).
	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.

Physical and chemical properties	
Appearance	Solid, may contain; white, grey or brown, red, cream and straw and light grey coloured granules
	or prills unless deliberately coloured during manufacture.
Odour	Odourless.
Odour threshold	Not applicable
рН	Usually > 4.5 (water solution 100g/ltr).
Melting point/freezing point	160-170°C depending on moisture content (for ammonuim nitrate).
Initial boiling point and boiling	Decomposes.
range	
Flash point	Not applicable, as the fertilizer is a mixture of inorganic solids.
Flammability (solid, gas)	Not flammable
Upper/lower flammability or	Not applicable.
explosive limits	
Explosive properties	The fertilizer has a high resistance to detonation.
	This resistance is decreased by the presence of contaminants and/or high temperatures. Heating under strong confinement (e.g. in tubes or drains) may lead to a violent reaction or
	explosion especially if there is contamination by some of the substances mentioned under
	Section 10.
Auto-ignition temperature	Ammonium nitrate based NPK/NP/NK fertilizer is not combustible.
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	(1725 kg/m ³ for main ingredient ammonium nitrate as solid material).
Loose bulk density	950 - 1050kg/m3
Vapour pressure at 20°C	Not applicable
Vapour density	Not applicable
Partition coefficient (n-	Not applicable
octanol/water)	
Viscosity	Not applicable
Mean particle size	2-4mm
Water solubility	Pure ammonium nitrate:1920 g/l at 20 °C
	Hygroscopic - readily picks up moisture from the air.
Surface tension	Not surface active (based on molecular structure)

MiscibilityNot applicableFat solubilityNot availableGas groupNot applicableRemarksNo further relevant information available.

0.1 Reactivity	Stable under recommended storage and handling conditions (see section 7, handling and storage).
0.2 Chemical stability	Stable under recommended storage and handling conditions (see section 7, handling and storage).
0.3 Possibility of hazardous reactions	When heated can decompose.
0.4 Conditions to avoid 0.5 Incompatible materials	 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. Combustible materials, reducing agents, acids, alkalis, sulphur, chlorates, chromates, nitrites, permanganates, metallic powders and substances containing metals such as copper, nickel,
0.6 Hazardous decomposition products	cobalt, zinc and their alloys. 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.

0 Toxicological information				
1 Information on toxicological effects				
	Not available			
distribution				
Acute toxicity	Ingredients			
Acute oral toxicity	Ammonium nitrate	LD50: 2950 mg/kg bw (OECD 401)		
Acute dermal toxicity	Ammonium nitrate	LD50: > 5000 mg/kg bw (OECD 402)		
Acute inhalation toxicity	Ammonium nitrate	LC50: > 88.8 mg/l (no guideline followed)		
Acute oral toxicity	Di-ammonium phosphate	LD50: > 2000 mg/kg, rat, (OECD 425)		
Acute dermal toxicity	Di-ammonium phosphate	LD50: > 5000 mg/kg, rat, (OECD 402)		
Acute inhalation toxicity	Di-ammonium phosphate	LC50: > 5 mg/l, rat, 4hr duration of exposure, (OECD 403)		
Acute oral toxicity	Potassium chloride	LD50: 3020 mg/kg, rat.		
Acute oral toxicity	Ammonium sulphate	LD50: 2840 mg/kg, rat.		
Acute oral toxicity	Ammonium sulphate	LD50: 4540 mg/kg, rat.		
Acute oral toxicity	Ammonium sulphate	LD50: 640 mg/kg, mouse.		
Acute oral toxicity	Ammonium sulphate	LDLO: 3500 mg/kg, domestic animals.		
Acute dermal toxicity	Ammonium sulphate	LD50: >2000 mg/kg, rat.		
Acute inhalation toxicity	Ammonium sulphate	>1000 mg/m3, (8 hours TWA), rat.		
Local effects				
Skin irritation	Product	No critical or specific hazard		
Eye irritation	Product	Not classified as irritating; see section 16.		
Sensitisation		magnesium nitrate, nitric acid ammonium calcium salt, sodium		
	nitrate). Prolonged contact may cause irritation and dryness from Limestone.			

Other	For main ingredient ammonium nitrate.
Sub-acute toxicity	Inhalation 2-weeks NOAEL ≥ 185 mg/m3 (OECD 412),
	Oral 28-day NOAEL \geq 1500 mg/kg bw/day (OECD 422, with potassium nitrate), and;
	Oral 28-day NOAEL ≥ 250 mg/kg bw/day (OECD 422, with di-ammonium phosphate)
	Oral 52-week NOAEL = 256 mg/kg bw/day (OECD 453, with ammonium sulphate)
Mutagenicity	Negative (OECD 471, 473, with nitric acid ammonium calcium salt)
	Negative (OECD 476, with potassium nitrate)
Reproductive toxicity	Oral 28-day NOAEL \geq 1500 mg/kg bw/day (OECD 422, with potassium nitrate)
Carcinogenicity	Not carcinogenic (OECD 453, with ammonium sulphate)
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.
	No new or increased hazards of Sub-acute toxicity, Mutanegicity, Reproductive toxicity and/or Carcinogenicity are introduced from the inclusion of one or more of each of the substances; Di- ammonium Phosphate, Potassium Chloride, Ammonium Sulphate and Limestone in the dry mixture/blend. Limestone dust if inhaled over a prolonged or extended period can, by respirable dust, lead to respiratory system damage and disease. Crystalline silica is present in limestone at around 2% by content, (Ref; HSE INDG 463), respirable crystalline silica has been associated with the lung disease silicosis.

1 Toxicity		
Ammonium nitrate	Fish (short-term)	48-h LC50: 447 mg/l (no guideline followed).
	Fish (long-term)	No data
	Daphnia magna (short-term)	48-h EC50: 490 mg/l (no guideline followed, with potassium nitrate).
	Daphnia magna (long-term)	No data
	Algae	10-d EC50: > 1700 mg/l (seawater, no guideline followed, performed with potassium nitrate).
	Inhibition of microbial activity	3-h EC50: >1000 mg/l, NOEC: 180 mg/l (OECD 209, with sodiu nitrate).
Di-ammonium phosphate	Acute algae toxicity	EC50: > 100 mg/l, EC10/LC10 or NOEC = 100mg/l for freshwate algae, species; Selanastrum capricornutum, 72 hour period.
DAP commercial grade.	Acute toxicity on fish.	LC50: 1700mg/l for fry at 21deg/C, species Cirrhinus mrigala. LC50 = 1875 mg/l on fingerlings at 21 deg/C, 96 hour period.
Single superphosphate, (read across to Di-ammonium phosphate).		EC50/LC50: 1790 mg/l for freswater invertebrates at 20.7 deg/C, species Daphnia carinata, 72 hour period.
	PNEC for freshwater; 1.7 mg/l, PN 17mg/l.	NEC for matine water; 0.17 mg/l, PNEC for intermittent releases
	Inhibition of microbial activity	3-h EC50/LC50: >100 mg/l, EC10/LC10 or NOEC: 100 mg/l (Activated sludge of a predominantly domestic sewage).
	PNEC for sewage treatment plant	: 10mg/l
Potassium Chloride	Toxicity to fish.	LC50: 880 mg/l, species Pimephales Promelas, (fathead minnow), 96 hour period, OE CD Test Guideline 203.
	Toxicity to daphnia and other aquatic invertebrates.	EC50: 440 - 880 mg/l, species Dapnia Magna, (water flea), 48 hour period, OECD Test Guideline 202.
	Toxicity to algae.	EC50: >100 mg/l, species Desmodesmus Subspicatus, (green algae), 72 hour period, OECD Test Guideline 201.
	Toxicity to bacteria.	EC50: >1000mg/l, activated sludge, 3 hour period, OECD Test Guideline 209.
	Toxicity to fish, (chronic toxicity).	No observed effect concentration: 500 mg/l, 7 day period, OECD Test Guideline 210.

	Ammonium Sulphate	Toxicity to fish.	LC50: 6.6 - 39.2 mg/l, species Oncorhynchus Mykiss, (rainbow trout), 96 hour period.		
			LC50; >20 mg/l, species Pimephales Promelas, (fathead minnow), 96 hour period.		
		Toxicity to daphnia and other	LC50; >20 mg/l, species Daphnia Magna, (water flea), 96 hour		
		aquatic invertebrates.	period.		
12.2	Persistence and degradability	Ingredient name	Ammonium Nitrate		
	Biodegradation	Standard test is not applicable as	the mixture is inorganic.		
			, will completely dissociate into ions.		
		Ingredient name	Di-ammonium Phosphate (N & P).		
		Standard test is not applicable as			
	-	Hydrolysis of the substance does not occur, and is also not susceptible to photodegradation.			
		Ingredient name	Potassium Chloride (K).		
	Biodegradation				
		Not applicable.			
		Ingredient name	Ammonium Sulphate (S).		
		Standard test is not applicable as			
		Not applicable.			
			limentene		
		Ingredient name. Limestone.			
	Biodegradation	Limestone is non-volatile and inert, it is resistant to degradation and will persist in the			
	Hydrolysis	environment. Not applicable.			
12 3	Bioaccumulative potential	Octanol-water partition	Not relevant as the mixture is inorganic, but considered to		
12.5	Bioaccumulative potential	coefficient	be low (based on high water solubility)		
		(Kow)			
		Bioconcentration factor (BCF)	Low potential for bioaccumulation (based on main ingredient properties), Potassium Chloride (K) and Ammonium Sulphate (S),		
			Di-ammonium Phosphate (N & P); Aquatic bio-accumulation - simple inorganic salts with high aqueous solubility will exist in a dissociated form in an aqueous solution. Such a substance has a low potential for bioaccumulation. Terrestrial - simple inorganic salts with high aqueous solubility will		
			bioaccumulation; will exist in a dissociated form in an aqueous		
			solution. Such a substance has a low potential for bioaccumulation.		
12.4	Mobility in soil	Low potential for adsorption (bas	ed on main ingredient properties)		
		Very soluble in water. The NO3- ion is mobile. The NH4+ ion is adsorbed by soil.			
		Di-ammonium Phosphate (N & P) in the soil only over very short pe	; Phosphates whether citrate or water soluble, are translocated riods and are then immobilised.		
		Potassium Chloride (K); Not appli	cable.		
		Ammonium Sulphate (S); easily s	oluble in cold water.		
			tion and will persist in the environment.		
12.5	Results of PBT and vPvB assessment	According to Annex XIII of Regula	tion (EC) No 1907/2006, no PBT and vPvB assessment has been		
		conducted since ammonium nitrate is inorganic.			
		According to data available, Di-ammonium Phosphate (N & P), is not PBT and not VPvB.			
		Potassium Chloride, (K), is inorganic so no PBT and vPvB assessment is required.			
		Ammonium Sulphate, (S), is not c			
		Limestone - not applicable.			

Container	
Container	Containers should be cleaned by appropriate method and then re-used or disposed by landfill o
	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 ray
	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.

14.0 Transport information

	ADR/RID	ADN/ADNR	IMDG	ICAO/IATA	
4.1 UN Number		Not cla	ssifed	-	
4.2 UN Proper shipping name	Not applicable.	Not applicable.	Not applicable.	Not applicable.	
4.3 Transport hazard class(es)		Not classifed			
1.4 Packing group		Not applicable.			
Label		Not app	licable.		
4.5 Environmental hazards		Not applicable.			
4.6 Special precautions for user		None.			
4.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		Not App	licable.		

15.0	Regulatory information				
	15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture EC 2003/2003, 96/82 EC; Seveso Directive.				
	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. Notification and Marking of Sites Regulations 1990, (NAMOS), (as amended 2013).			
15.2	Chemical safety assessment	In accordance with REACH Article 14, a Chemical Safety Assessment has been carried out for the main ingredient Ammonium Nitrate 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	None.
Regulation 1272/2008, as listed in	
Annex VI:	
Classification in accordance with	Not classified.
Regulation 1272/2008, by self-	No eye irritation (tested on mixtures with similar compositions according to OECD 437 and OECD
classification based on the	405)
performed CSA	

	R36 Irritating to eye.		
Symbols	O oxidizing		
	Xi irritant		
Abbreviations and acronyms	Oxidizing solids category 3 (Ox. Sol 3)		
	May intensify fire; oxidizer (H272)		
	Eye irritation Category 2 (Eye Irrit. 2)		
	Causes serious eye irritation (H319)		
	CLP - Classification, Labelling and Packaging Regulation, (Regulation EC No. 1272/2008).		
	CAS Number - Chemical Abstracts Number, substance registration number.		
	EC No European Commission substance identification number.		
	% w/w - Percentage weight for weight; percentage by weight of solute in total weight of solutio		
	PBT - Persistent, bioaccumulative, toxic.		
	vPvB - Very persistent, very bioaccumulative.		
	DNEL - Derived no effect level.		
	PNEL - Prescribed no effect level.		
	LC50 - Lethal concentration for 50% of subjects.		
	LD50 - Lethal dose for 50% of subjects.		
	OECD - Organisation for Economic Co-operation and Development.		
	LOAEL - Lowest observed adverse effect level.		
	NOAEL - No observed adverse effect level.		
	EC50 - Effective Concentration for 50% of subjects.		
	NOEC - No observed effect concentration.		
	LTEL - Long term exposure limit.		
	STEL - Short term exposure limit		
	TWA - Time weighted average.		
	mg/kg/bw/day - mg/kg of body weight per day.		
	mg/kg/dw - mg/kg of dry weight.		
Fraining advice	Operators should be provided with information, instruction, training and supervision relative to		
	this Safety Data Sheet and any subsequent COSHH assessment produced by his/her employer.		
Date of previous SDS	08/07/2010		
Modifications in this version			
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 Origin Fertilisers for the consequences of its use or misuse in any particular circumstances.