

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

Version:	Revision 1
Issue date:	09/08/21

GROUP 8

NITROGEN FREE P & PK, (CONTAINING < 10% SUPERPHOSPHATES).

1	Identification of the substance/mixture and of the company/undertaking						
1.1	Product indentifier						
	Product/Trade name	Nitrogen free P & PK fertilizers, (containing <10% superphosphates). As indicated on packaging by PSDS Group					
		8 marking and nutrient inclusion.					
	Common chemical name	P & PK, compound/blended fertilizer, complex fertilizer, (containing <10% superphosphates).					
	Synonyms	N/A Mixture					
	Chemical formula	N/A Mixture					
	EU index number	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 appropriate.						
1.2	Polovant identified uses of the	substance or mixture and uses advised against Use of the substance/mixture Fertilizer.					
1.2	Uses advised against	All non-agricultural fertilizer use.					
	Details of the supplier of the sa						
1.3	Manufacturer/Importer/Suppli						
1.5	er	Company name:Mole Valley Forage Services Ltd					
	C.	Company name. Wide valley rorage services Ltu					
		Ellandras Cahad Nadh Cida Cadh dad Alamada dad Nasarat Carat NB20 2NB					
		Full address:8 shed, North Side, South dock, Alexandra dock, Newport, Gwent, NP20 2NP					
		Tel: 01769 576450					
	Email address of the person	Empil address, reaso weeks were so up					
1.4	responsible for SDS	Email address; reece.woolgar@mvfs.co.uk Tel; 01769 576227					
1.4	Emergency telephone number	Out of hours; 07814284067					
	1						
2	Hazards identification						
2.1	Classification of the substance	or mixture					
	ae						
	Classification in accordance	Non hazardous					
	with Regulation 1272/2008	Non hazardous					
	with Regulation 1272/2008 (CLP)	Non hazardous					
	with Regulation 1272/2008	Non hazardous Not applicable.					
	with Regulation 1272/2008 (CLP) Hazard statement(s)	Not applicable.					
	with Regulation 1272/2008 (CLP) Hazard statement(s) Classification in accordance						
	with Regulation 1272/2008 (CLP) Hazard statement(s) Classification in accordance with Directive 67/548 (DSD)	Not applicable. Not applicable.					
	with Regulation 1272/2008 (CLP) Hazard statement(s) Classification in accordance	Not applicable.					
2.2	with Regulation 1272/2008 (CLP) Hazard statement(s) Classification in accordance with Directive 67/548 (DSD)	Not applicable. Not applicable.					
2.2	with Regulation 1272/2008 (CLP) Hazard statement(s) Classification in accordance with Directive 67/548 (DSD) Risk phrase(s) Label elements	Not applicable. Not applicable.					
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	Precautionary statement(s)	None.						
2.3	Other hazards	None.						
	PBT/vPvB criteria	Not applicable.						
	Other hazards which do not res	ult in classificati	on					
	Physical and chemical hazards		asically harmless	•				
		However, the following points should be noted for heating and fire.						
	The fertilizer is not itself combustible. On heating or fire, elements can melt and further heating may residecomposition releasing toxic fumes containing phosphorous oxides, (e.g. P2O5), sulphur oxides, (SOx),							
			ide gas and dang					
	Health hazards					-	or repeated contact with	
			_			_	ntestinal disorders and	
			as sore throat ar		use irritation of t	ne nose and upp	per respiratory tract with	
	Environmental hazards				environmental ii	mpact such as e	utrophication in confined	
		, ,	See Section 12.	.,			ан ортноанот то осттоа	
		•						
3	Composition/information on ing	gredients						
	Substance:							
	Hazardous ingredients	T	1	T	Τ			
				Generic REACH	Classification	Classification		
	Chemical name	CAS no.	EC no.	Reg No.)	Regulation (EC)		% (w/w)	
					No. 1272/2008	67/548/EEC		
				01-	Eye Dam./Irrit.			
	Triple superphosphate	65996-95-4	266-030-3	2119493057-	H318	Xi; R41	<10%	
				33				
	Other ingredients		1	T	T			
	Potassium Chloride	7447-40-7	231-211-8				Variable	
	Limestone	1317-65-3	215-279-6				Variable	
	EC no. means EINECS or ELINCS r	number.		I	I			
4	First aid measures							
4.1	Description of first aid measure	ı						
			nedical attention					
	Inhalation		ource of exposur		sh air.			
	Ingestion		attention if ill eff omiting unless d		hy medical nerso	nnel		
	Ingestion		d then give plent			illici.		
						swallowed.		
		Obtain medical attention if more than small quantities have been swallowed. NOTE; never give an unconcious person anything to drink.						
	Skin contact	Wash the affect	ted area with wa	ter and soap and	rinse thoroughly	y. If skin irritatio	n continues, consult a doctor.	
	Evo contact	Fluch /irrigate o	vos includina una	lar avalida with a	caniaus amaunts	of water for at	loast 15 minutos	
	Eye contact	_	yes including und t lenses if presen				least 15 minutes.	
			attention if symp			.0.		
4.2	Most important symptoms and	J		,				
	Acute effects	luuitatina ta s						
	Delayed effects	Irritating to eye	5.					
4.3	Indication of any immediate me	dical attention	and special treat	ment needed				
	Note to physician	Treat symptom	atically. Contact ¡	poison centre sp	ecialist immediat	ely if large quar	ntities have been ingested or	

inhaled.

5	Fire-fighting measures	
5.1	Extinguishing media	
J.1	<u> </u>	If fertilizer is not directly involved in the fire
	Suitable extiliguishing media	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	Do not use chemical extinguishers or foams or attempt to smother the fire with steam or sand.
	media	bo not use themical examplifies of fourist of attempt to smother the fire with securior sand.
5.2	Special hazards arising from the	substance or mixture
	Specific hazards	No specific fire or explosion hazard.
	Hazardous thermal	Phosphorous oxides, (e.g. P2O5), sulphur oxides, (SOx), and danger of toxic flourine based pyrolysis products;
	decomposition and	Phosphates, (P inclusion), and, Hydrogen chloride gas; Potassium Chloride (K inclusion).
	combustion products	
5.3	Advice for firefighters	
	_	Open doors and windows of the store to give maximum ventilation.
	op comments and a second processing processing and a second processing processing processing processing and a second processing proc	Avoid breathing the fumes (toxic); stand up-wind of the fire.
		In case of inhalation of any decomposition products in a fire, symptoms may be delayed.
	Special protective equipment	Use a self-contained breathing apparatus if fumes are being entered.
	for fire-fighters	
	1 • • • • • • • • • • • • • • • • • • •	1
6	Accidental release measures	
6.1	Personal precautions,	Avoid walking through spilled product and exposure to dust.
	protective 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 open
	containment and cleaning up	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 cor	ntact information, section 8 for personal protective equipment and section 13 for waste disposal.
7	Handling and storage	
		ontains generic advice and guidance. The list of identified uses given in section 1 should be considered for any
	use-specific information provide	
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.
7.3	Conditions for sets stores	
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
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		Do not permit smoking and use of naked lights in the storage areas.
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7.3	Specific end use(s)	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:

	Francisco de la	A					
8	Exposure controls/personal protection						
		-	tains generic advice and guidance. The list of identified uses given in section 1 should be considered for any				
0.4	use-specific information provide	a in the Exposur	e Scenario(s).				
8.1	Control parameters	lsc. 5.1	· · · · · · · · · · · · · · · · · · ·				
	Regulated Exposure limit	No specific EU c	official limit.				
	values	LIK FILAO Marko	laca Evanceura Lir	mita (\A/EL'a)			
	Recommended occupational and consumer exposure limit	Components.	lace Exposure Lir			Value.	Form
	values (following from the		1317-65-3) TW	Type.	od Avorago	value. 4mg/m3	Form. Respirable
	performed CSA):	Limestone (CAS	1317-03-3) 100	A, (Time Weight	eu Average	4mg/m	•
	periorinea corry.					10mg/m	•
						10mg/m	
		Exposure patter	n Derived No Eff	ect Level			
		Workers Work	kers	General Populat	ion		
		Oral Not g		Not given			
			mg/kg bw/day	Not given			
		Inhalation 3.1	-	Not given			
		_	INEL IS CONSIDERE	a sufficient to er	isure that effect	s from acute expo	sure to the substance do
		not occur.		1	C	F Iv	
	PNEC	fresh water:	marine water:	Intermittent use/release:	Sewage	Freshwater	Cail ma/ka/du
	FINEC	mg/l	mg/l	mg/l	treatment plant: mg/l	sediment mg/kg/dw	Soil mg/kg/dw
				1116/1	plant. mg/i	mg/kg/uw	
	Triple superphosphate.	1.7	0.17	17	Not given	Not given	Not given
	Potassium Chloride.	Not given	Not given	Not given	Not given	Not given	Not given
			_	_			-
	Limestone	Not given	Not given	Not given	Not given	Not given	Not given
8.2	Exposure controls						
	Appropriate engineering	_		nd provide ventila	ation where nec	essary. Risk of inha	alation must be minimised
	measures	as much as poss					
	Hygienic measures	_	the product do n vatory and at the			nds after handling	and before eating, smoking
	Individual protection	and using the la	vatory and at the	end of the work	ang period.		
	•	If dust concentr	ation is high and	/or vontilation is	inadoquato uco	suitable dust mas	k or respirator with an
	Respiratory system		er; EN 136, EN 14			sultable dust illas	k of respirator with an
	Skin and hody	Working clothes		0, 211145, 211145	, 1 11001312		
		_		rubber or leath	er) when handli	ng the product ove	ar long periods
		_				-	side protection or safety
	Lyes	goggles, (EN166		itti side silielus (L	in 100). Wear so	arety glasses with	side protection or safety
	Environmental exposure			ercourses and dra	ains and inform	the annronriate au	thority in case of accidental
	controls		of watercourses.	recurses and are		ine appropriate ad	chority in case of accidental
		Do not flush int	o surface water c	or sanitary sewer	system.		
				·			
9	Physical and chemical propertie	es .					
9.1	Information on basic physical ar	nd chemical pro	perties				
	Appearance	Solid, granular,	brown or grey an	d red or cream a	nd light grey gra	anules unless delib	erately coloured during
		manufacture.					
	Odour	May be acrid wi	th superphospha	te inclusion.			
	Odour threshold	Not determined	l.				
	рН	> 3.6 aqueous s	olution.				
	Melting point/freezing point	Not determined	l.				
	Initial boiling point and boiling	Superphosphate	e decomposes > 2	200 ºC.			
	range						
	Flash point	Not determined	l.				
	Evaporation rate	Not determined	l.				
	Flammability (solid, gas)	Not determined	l.				
	Upper/lower flammability or	Not determined	l.				
	explosive limits						

	Explosive properties	Not determined.
	Auto-ignition temperature	Not determined.
	Decomposition temperature	Superphosphate starts to decompose above appox. 200°C
	Minimum ignition energy	Not determined.
	Oxidising properties	Not oxidising.
	Critical temperature	Not applicable
	Relative density	Not applicable.
	Density	Not determined.
	Loose bulk density	Normally between 1000-1200 kg/m³.
	Vapour pressure at 20°C	Not determined.
	Vapour density	Not applicable
	Partition coefficient (n-	Not applicable
	octanol/water)	
	Viscosity	Not applicable to solids
	Mean particle size	2-4mm
	Water solubility	>100 g/l at 20ºC.
		Hygroscopic - readily picks up moisture from the air.
	Surface tension	Not surface active (based on molecular structure)
9.2	Other information	
	Miscibility	Not applicable
	Fat solubility	No available
	Gas group	Not applicable
	Remarks	No further information available.

10	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	When heated, superphosphates can decompose.
	reactions	
10.4	Conditions to avoid	Heating above 200°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	Superphosphates may react or be incompatible with alkalis and is incompatible with Urea.
10.6	Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	products	For fire situation: see section 5.
		When strongly heated, decomposition products are produced releasing toxic fumes including 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).
		See also Sections 2 and 9.

11	Toxicological information	gical information					
11.1	Information on toxicological eff	ects					
	Toxicokinetics, metabolism	Not available					
	and distribution						
	Acute toxicity	Ingredients					
	Acute oral toxicity	Triple superphosphate	LD50: >2000 mg/kg bw, (rat; male, female, exposure time 4 hours).				
	Acute dermal toxicity	Triple superphosphate	LD50: > 5000 mg/kg bw, (rat; male, female, exposure time 4 hours).				
	Acute inhalation toxicity	Triple superphosphate	LC50: > 5 g/m3, (rat; male, female, exposure time 4 hours).				
	Acute oral toxicity	Potassium chloride	LD50: 3020 mg/kg, rat.				
	Acute dermal toxicity						
	Acute inhalation toxicity						
	Local effects						
	Skin irritation						
	Eye irritation						
	Skin sensitisation	= '					
	Eye irritation						

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Sub-acute toxicity Oral 90-day Sub-chronic NOAEL ≥ 250 mg/kg bw/day tested on rat, (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. Superphosphates will cause serious eye damage therefore suitable eye protection must be worn to prevent eye contact. Prolonged inhalation may cause respiratory irritation with apparent adverse symptoms such as coughing, wheezing and breathing difficulties. 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.

12	Ecological information					
12.1	Toxicity					
	Triple superphosphate	Toxicity to fish	96-h Acute LC50: >85.9 mg/l, freshwater, (OECD 203).			
		Toxicity to daphnia and other	72-h Acute LC50: 1.790 mg/l, aquatic invertebrates - Water flea.			
		aquatic invertebrates.				
		Toxicity to algae	72-h Acute EC50: > 87.6 mg/l, aqatic plants - Algae.			
		Inhibition of microbial activity	No data.			
	Potassium Chloride (K)	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	EC50: 440 - 880 mg/l, species Dapnia Magna, (water flea), 48 hour period,			
		aquatic invertebrates.	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.			
12.2	Persistence and degradability	Ingredient name.	Triple superphosphate.			
	Biodegradation	Superphosphates are readily biodegradeable in plants and soils and does not show any bioaccumulation				
		phenomena.				
	Hydrolysis	Not applicable.				
		Ingredient name.	Potassium chloride.			
	Biodegradation	· · · · · · · · · · · · · · · · · · ·				
	Hydrolysis	Not applicable.				
		Ingredient name. Limestone.				
	Biodegradation	Limestone is non-volatile and ine	ert, it is resistant to degradation and will persist in the environment.			
	Hydrolysis	Not applicable.				
12.3	Bioaccumulative potential	Octanol-water partition	Not applicable.			
		coefficient				
		(Kow)				
		Bioconcentration factor (BCF) Low potential for bioaccumulation (based on substance properties)				
12.4 Mobility in soil Low potential for absorption (based on substance properties).			, ,			
			ation and will persist in the environment.			
12.5	Results of PBT and vPvB assessment	Not considered to be persistent,	bioaccumulating or toxic PBT or vPvB.			
12.6	Other adverse effects	No known effects or significant h	nazards.			

13	Disposal considerations							
13.1	Waste treatment methods	In accordance w	ith local and nat	ional regulations	. disposed by lan	dfill or incineration.		
			egradation in wa	_				
	Container		-			e-used or disposed by landfill		
			r incineration as appropriate, in accordance with local and national regulations. o not remove label until container is thoroughly cleaned.					
	Methods of disposal					use as fertilizer on farm, as raw material for		
	Wicking of disposal		or to an authoris			ase as reremizer on raini, as raw material for		
				•		er in a cafe way and in accordance with all		
		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.						
					s (Commission d	ecision 2000/532/EC)		
	Package waste disposal	-	by shaking to rem					
	rackage waste disposal					is non-hazardous material or returned for		
		recycling.	ocai autilorities,	empty bags may	be disposed of a	is non-nazardous material of returned for		
	Note: see section 7 for safe hand		,					
	Note. see section 7 joi suje nand	ining und storage						
14	Transport information							
		_	_		_			
		ADR/RID	ADN/ADNR	IMDG	ICAO/IATA			
14.1	UN Number		Not cla	ıssified.	<u> </u>			
14.2	UN Proper shipping name							
	or roper simpling name	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
14.3	Transport hazard class(es)		Not cla	l Issified.				
14.4	Packing group			olicable.				
	Label			olicable.				
14.5	Environmental hazards		Not app	olicable.				
14.6	Special precautions for user		No	ne.				
14.7	Transport in bulk according							
	to Annex II of MARPOL73/78		Noton	nlicable				
	and		Not ap					
	the IBC Code							
15	Regulatory information							
15.1	Safety, health and environment	al regulation/le	gislation specific	for the substan	ce or mixture			
		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)						
	Other regulations							
		552/2009.						
15.2	Chemical safety assessment			e 14, a Chemical	Safety Assessme	nt has been carried out for the substance		
		Triple superphosphate.						
16	Other information							
	The information provided in this	safety data shee	et is correct to th	e best of our kno	owledge, informa	ation, and belief at the date of its publication.		
	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	None.						
	with Regulation 1272/2008, as							
	listed in Annex VI:	Nana						
	Classification in accordance	None.						
	with Regulation 1272/2008, by							
	self-classification based on the							
	performed CSA	Nana						
	Risk phrases	None.						
	Symbols	None.						
	Symbols	None.						

Abbreviations and acronyms	Eye Dam. Irrit. 1 (Eye Irrit. 1)
	Causes serious eye irritation (H318)
	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 solution.
	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.
Training 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.