

SECTION 1:



IDENTIFICATION OF THE	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1 Product identifier		
Product name	POLY4 – a multi-nutrient granular or crystalline mineral.	
1.2 Relevant identified use	es of the substance or mixture and uses advised against	
Applications	POLY4 is a multi-nutrient fertilizer resource suitable for use where potassium, sulfur, magnesium or calcium are required. Suitable for organic production as a source of essentially chloride-free potassium, sulfur, magnesium and calcium.	
1.3 Details of the supplier	of the safety data sheet	
Manufacturer	Business unit: Crop Nutrients, Anglo American Address: Resolution House, Lake View, Scarborough, YO11 3ZB, UK Phone: +44 1723 470 010 Company registered number: 04948435	
Email address of person responsible	cropnutrients.commercial@angloamerican.com	
1.4 Emergency contact		
In case of emergency contact	Stacey.Bean@angloamerican.com For details of National Poison Information services see section 17.	



SECTION 2: HAZARD IDENTIFICATION

Hazard identification	Not classified as hazardous. Information is offered critical to the safe handling and proper use of the product.
Signal word	No signal word.
Hazard statements	No known significant effects or hazard.
Pictograms	None.
Precautionary statements	Not classified as hazardous. None.
Other unclassified hazards	Handling of this material may generate dust which can cause irritation of the eyes, skin, nose, and throat.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mineral	CAS number	Composition	Classification
Polyhalite: K ₂ Ca ₂ Mg(SO ₄) ₄ ·2H ₂ O	15278-29-2	>85% w/w	None.
Magnesite: MgCO ₃	546-93-0	2.6% w/w	None.
Anhydrite: CaSO ₄	7778-18-9	8.0% w/w	None.
Halite: NaCl	14762-51-7	3.6% w/w	None.
Starch : (C ₆ H ₁₀ O ₅)	9005-25-8	0.8% w/w	None.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid measures

Eyes	Irrigate eyes with plenty of water for 15 minutes. Seek medical attention if discomfort persists.
Skin	Treat symptomatically. Rinse exposed skin and decontaminate clothing following exposure.
Inhalation	Following exposure move the patient to fresh air. Seek medical attention if discomfort persists.
Ingestion	Rinse the mouth and drink plenty of water. Seek medical attention if symptoms persist.

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



	DO NOT GIVE AN UNCONSCIOUS PERSON ANYTHING TO DRINK.
4.2 Most important sympt	oms and effects, both acute and delayed
Eyes	May cause irritation due to mechanical action.
Skin	Following prolonged exposure adverse symptoms may include dryness and skin cracking.
Inhalation	No specific data.
Ingestion	No specific data.
4.3 Indication of any imme	ediate medical attention and treatment needed
	No specific information.
SECTION 5: FIREFIGHTING MEASURI	ES
5.1 Extinguishing media	Use an extinguishing media suitable for the fire source.
5.2 Special hazards arising from the substance or mixture	No specific fire hazards.
5.3 Protection for firefighters	Firefighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA). Contain and collect the effluent water used to fight the fire and prevent environmental contamination.
SECTION 6: ACCIDENTAL RELEASE	MEASURES
6.1 Personal precautions, protective equipment, and emergency procedures	Wear dust mask if dust is airborne. Use gloves with protracted exposure.
6.2 Environmental precautions	Avoid environmental contamination to waterways via drains and sewers. Inform the relevant authorities if spillage is likely to cause an environmental hazard (sewers, waterways, soil, or air). Sweep up materia and place in a designated, labelled waste container. Dispose of via a

licensed waste disposal contractor.

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



6.3 Methods and materials for containment for cleaning up	No specific information.	
6.4 Reference to other sections	See sections 8, 13 and 17 for further information.	

SECTION 7: HANDLING AND STORAGE	E
7.1 Precautions for safe handling	Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering canteen areas. Use appropriate personal protective equipment (see Section 8). Do not ingest, avoid prolonged contact with eyes, skin and clothing.
7.2 Conditions for safe storage, including any incompatibilities	Store in a dry area. Absorbs moisture on long-term storage under high humidity conditions. If product has caked, or has adhered to the storage or transport container, stay out of the potential engulfment zone in case the material collapses.
	Store in accordance with local regulations. Ensure that bulk bags or smaller packaged products stored in tiers are stacked to prevent sliding, rolling, or collapse.
7.3 Specific end use(s)	No additional information.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits		
Magnesite		
Canada	Ontario: Limit value – 8 hours: 10 mg/m³ particulate matter Québec: Limit value – 8 hours: 10 mg/m³ total dust	
USA	NIOSH: Limit value – 8 hours: 10 mg/m³ total dust, 5 mg/m³ respirable fraction OSHA: Limit value – 8 hours: 15 mg/m³ total dust, 5 mg/m³ respirable dust	
Calcium sulphate		
Canada	Alberta: Limit value – 8 hours: 10 mg/m ³	
	Ontario: Limit value – 8 hours: 10 mg/m³ inhalable aerosol	
	Québec: Limit value – 8 hours: 10 mg/m³ total dust, 5 mg/m³ respirable fraction	

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



USA	NIOSH: Limit value – 8 hours: 10 mg/m³ total dust, 5 mg/m³ respirable aerosol
	OSHA: Limit value – 8 hours: 15 mg/m³ total dust, 5 mg/m³ respirable dust
Starch	
Canada	Alberta, Ontario: Limit value – 8 hours: 10 mg/m³
	Québec: Limit value – 8 hours: 10 mg/m³ total dust
USA	NIOSH: Limit value – 8 hours: 10 mg/m³ total dust, 5 mg/m³ respirable aerosol
	OSHA: Limit value – 8 hours: 15 mg/m³ total dust, 5 mg/m³ respirable dust
Particulates not otherwise regulated	
Canada	Alberta: Limit value – 8 hours: 10 mg/m³ total, 3 mg/m³ respirable Ontario: Limit value – 8 hours: 10 mg/m³ inhalable particulate matter, 3 mg/m³ respirable particulate matter Québec: Limit value – 8 hours: 10 mg/m³ total dust
USA	OSHA: Limit value – 8 hours: 15 mg/m³ total dust, 5 mg/m³ respirable dust
8.2 Exposure controls	
Appropriate engineering controls	Local exhaust ventilation when excessive dust is produced to comply with worker exposure limits.
Individual protection measures	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary. Cotton or cotton/synthetic overalls or coveralls and gloves are normally suitable. Footwear appropriate to the task. Fully functional and serviced respirators may be worn in accordance with site risk assessment. For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.
Environmental exposure controls	No further specific information.

SECTON 9:

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Grey, grey white or white solid product.
Odor	Odorless.
Odor threshold	Not applicable.
рН	Neutral.

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



Melting point/ freezing point	Melting point: undetermined.
Initial boiling point and boiling range	Boiling point: undetermined.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability	Not flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not determined.
Vapor density	Not determined.
Relative density	Loose: 80.3 lb/ft ³ (1.3 kg/m ³). Tapped: 87.3 lb/ft ³ (1.4 kg/m ³).
Solubility	Soluble.
Partition coefficient	Not applicable.
Auto-ignition temperature	Not self-igniting.
Decomposition temperature	Not determined.
Viscosity	Not applicable.
Explosive properties	Not determined.
Oxidizing properties	Not determined.
9.2 Other information	
Particle size	2–4 mm (granular)

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



SECTION 10:
STABILITY AND REACTIVITY

10.1 Reactivity	Stable and non-reactive. No decomposition if used according to specifications.	
10.2 Chemical stability	Stable and non-reactive. No decomposition if used according to specifications.	
10.3 Possibility of hazardous reactions	No dangerous reactions known.	
10.4 Conditions to avoid	Do not overheat.	
10.5 Incompatible materials	No incompatible materials known.	
10.6 Hazardous decomposition products Hazardous decomposition products may include su oxides, magnesium oxide.		

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Not classified. Ingestion of large amounts may cause gastro-intestinal irritation. Inhalation may cause discomfort to the nasal passage.	
Skin corrosion/irritation	Prolonged contact may cause dermatitis.	
Serious eye damage/irritation	May cause short-term discomfort due to mechanical action.	
Respiratory or skin sensitisation	No known effect.	
Germ cell mutagenicity	Not classified, a non-genotoxic product.	
Carcinogenicity	Not classified, a non-genotoxic product.	
Reproductive toxicity	Not classified, a non-genotoxic product.	
STOT-single exposure	No known effect.	
STOT-repeated exposure	No known effect.	
Aspiration hazard	No known effect.	
LD/LC50 values relevant for classification	None.	

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



SECTION 12: ECOLOGICAL INFORMATION		
12.1 Toxicity	No further relevant information available for aquatic toxicity.	
12.2 Persistence and degradability	A naturally occurring mineral, therefore no biodegradation tests are applicable.	
12.3 Bio accumulative potential	Does not accumulate in organisms.	
12.4 Mobility in soil	No relevant information.	
12.5 Results of PBT and vPvB assessment	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	
12.6 Other adverse effects	No relevant information.	

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible in accordance with local regulation. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION	
14.1 UN number	None.
14.2 UN proper shipping name	None.
14.3 Transport hazard classes	Not classified as hazardous for transport.
14.4 Packing group	None.
14.5 Environmental hazards	None.
14.6 Special precautions for user	None.
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable.

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



SECTION 15: REGULATORY AND OTHER INFORMATION

Regulatory	Not applicable.	
CERCLA	Not listed.	
RCRA 261.33	Not listed.	
SARA TITLE III: (Exemptions at 40 CFR, Part370 agricultural use, or if less than 10,000 pounds on-site.)	Not applicable.	
NTP, IARC, OSHA	Not been identified as a carcinogen.	
Canada DSL and NDSL		
TSCA	Polyhalite is a naturally occurring mineral processed only by mechanical means.	
CA Proposition 65: (Health & Safety Code Section 25249.5	No hazard warning.	
WHMIS	WHMIS 2015 SDS prepared according to the hazard criteria of the Hazardous Products Regulations.	

SECTION 16: OTHER INFORMATION	
16.1 Abbreviations	IBC: International Bulk Chemical Code. MARPOL: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. PBT: persistent, bio accumulative, toxic chemical. vPvB: very persistent, very bio accumulative chemical.
To the best of Anglo American Woodsmith Ltd knowledge and belief pris non-hazardous and does not require an LC50/LD50 assessment. An American Woodsmith Ltd makes no representation, warranty or guarant to the information's accuracy, reliability, completeness or timeliness. It user's responsibility to determine the suitability and completeness of suinformation for the users own particular use or purposes. Anglo American Woodsmith Ltd does not accept any liability or any loss or damages that	

occur from the use of this information.

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



16.3 Contact

information

Email: cropnutrients.commercial@angloamerican.com

Registered address:

Anglo American Global Headquarters 17 Charterhouse Street

London

EC1N 6RA, UK

Company registered number: 04948435

SECTION 17: EMERGENCY CONTACTS Crop Nutrients, Stacey.Bean@angloamerican.com **Anglo American National Poison** Washington Poison Center Emergency telephone: +1 800-222-1222 Information Service Administrative telephone: +1 206 517 2350 Email: poisoncenter@fpicn.org Website: www.wapc.org Address: Washington Poison Center 155 NE 100th Street Seattle 98125-8007 Access: 24 hours, available to the public. Florida Poison Information Emergency telephone: +1 800-222-1222 Center Administrative telephone: +1 813 844 7044 Email: poisoncenter@fpicn.org Website: www.poisoncentertampa.org Address: Florida Poison Information Center - Tampa Tampa General Hospital 1 Tampa General Circle

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010



	Tampa, FL
	33601
	Access: 24 hours, available to the public.

Effective: October 2021 Location: USA, Canada

T: +44 1723 470 010

 $\textbf{E:} \ cropnut rients. commercial @angloamerican.com\\$