SAFETY DATA SHEET

HYBRID AG

Pearl Surge MGM

Hybrid-Ag Pty Ltd

Catalogue number: **N/A**
Version No: **0.1**
Issue date: 0**1/06/2023**
Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Pearl Surge MGM
Synonyms	N/A
Other means of identification	Dry Granular Fertiliser

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Fertiliser

Details of the manufacturer/importer

Registered company name	Hybrid-Ag Pty Ltd
Address	52 Buckler Road, Wangaratta, VIC 3677
Telephone	(03) 5722 7555
Mobile	
Website	www.hybridag.com.au
Email	admin@hybridag.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
GHS Classification [1]	Aquatic Toxicity (Chronic): Category 3

Label elements

GHS label elements	Not applicable
SIGNAL WORD	**NOT APPLICABLE**

Hazard statement(s)

H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s) Prevention

P102	Keep out of reach of children

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501	Dispose of contents and containers in accordance with local regulations

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

All ingredients are non-hazardous

Mixtures

CAS No	% (weight)	Name
57-13-6	<100	Urea
7783-20-2	<100	Ammonium Sulphate
Not Applicable	<100	Other ingredients not classified as hazardous

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs with concentrate: Flush skin and hair with running water. Seek medical advice in event of irritation.
Inhalation	Not applicable
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once)

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

	There is no restriction on the type of extinguisher which may be used

Special hazards arising from the substrate or mixture

Fire incompatibility	None known

Advice for firefighters

Fire Fighting	Non-combustible Alert Fire Brigade and tell them location and nature of hazard. Fire fighters to wear self-contained breathing apparatus (SCBA) and suitable protective clothing
Fire/Explosion Hazard	Decomposition may produce hazardous vapours of Nitrogen Oxides, Sulfur Oxides, Carbon Oxides, Ammonia

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Sweep up & dispose of.
Major Spills	Sweep into a centralised location and place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. Prevent by any means available any spillage entering a watercourse.

	Personal protective equipment advice is contained in Section 8 of this SDS

SECTION 7 HANDLING ANDSTORAGE

Precautions for safe handling

Safe handling	Wear suitable protective clothing depending on the circumstances as per section 8. Do not mix with other chemicals unless expressly recommended by the manufacturer. Always store in original container.
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	Bulk bag, 25Kg bag, bulk loose
Storage incompatibilities	Acids; oxidising agents, e.g. hypochlorite, farm chemicals, insecticides, fungicides, herbicides and foodstuffs

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

Exposure controls

Appropriate engineering controls	Ensure adequate ventilation
Personal protection	 Wear gloves, dust proof goggles, dust mask, long sleeves, long pants & steel cap boots
Eye and face protection	Wear gloves, dust proof goggles, dust mask, long sleeves, long pants & steel cap boots
Hands/feet protection	Wear gloves, dust proof goggles, dust mask, long sleeves, long pants & steel cap boots

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Dark brown to black granule material

Physical state	Solid	**Relative density (Water = 1)**	Not Applicable
Odour	Slight pungent odour	**Partition coefficient n-octanol / water**	Not Available
Odour threshold	Not Available	**Auto-ignition temperature (°C)**	Not Applicable
pH (as supplied)	6-9	**Decomposition temperature**	Not Applicable
Melting point / freezing point (°C)	Not Applicable	**Viscosity (cSt)**	Not Available
Initial boiling point and boiling range (°C)	Not Applicable	**Molecular weight (g/mol)**	Not Available
Flash point (°C)	Not Applicable	**Taste**	Not Available
Evaporation rate	Not Available	**Explosive properties**	Not Available
Flammability	Not Applicable	**Oxidising properties**	Not Available
Upper Explosive Limit (%)	Not Applicable	**Surface Tension (dyn/cm or mN/m)**	Not Available
Lower Explosive Limit (%)	Not Applicable	**Volatile Component (%vol)**	Not Available
Vapour pressure (kPa)	6.4	**Gas group**	Not Available
Solubility in water (g/L)	Partially Miscible	**pH as a solution**	Not Available
Vapour density (Air = 1)	Not Available	**VOC g/L**	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials.
Possibility of hazardous reactions	Exothermic reaction with: metallic chlorides, Chlorites, chromates/perchromates, Fluorine, nitrates, strong oxidising agents, hydrogen peroxide. Generates dangerous gases or fumes in contact with: bases, chlorinated solvents Risk of explosion/exothermic reaction with: ammonium nitrate, calcium hypochlorite, Chlorine, chromyl chloride, Nitroso compound, sodium hypochlorite, nitrosyl compounds, phosphorus pentachloride, perchlorates, nitrites, Nitro compounds.
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	Carbon Oxides, Nitrogen Oxides, Sulfur Oxides, Ammonia

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Mists and dust from the product may cause irritation to the nose, throat and respiratory system with effects including; coughing and discomfort.
Ingestion	May cause irritation to the mouth, throat and stomach.
Skin Contact	May cause skin irritation
Eye	May cause irritation.
Chronic	Extended period of contact may cause irritation in sensitive individuals.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Sulfate 7783-20-2	= 2840 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

UREA

Acute toxicity

LD50 Oral - Rat - 8,471 mg/kg

Remarks: (RTECS)

Symptoms: Nausea, Vomiting

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: slight irritation

(OECD Test Guideline 405)

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium Sulfate 7783-20-2	-	LC50: 123 - 128mg/L (96h, Poecilia reticulata) LC50: 32.2 - 41.9mg/L (96h, Oncorhynchus mykiss) LC50: 460 - 1000mg/L (96h, Leuciscus idus) LC50: 5.2 - 8.2mg/L (96h, Oncorhynchus mykiss) LC50: =126mg/L (96h, Poecilia reticulata) LC50: =18mg/L (96h, Cyprinus carpio) LC50: =250mg/L (96h, Brachydanio rerio) LC50: =420mg/L (96h, Brachydanio rerio) LC50: =480mg/L (96h, Brachydanio rerio) LC50: >100mg/L (96h, Pimephales promelas)	-	LC50: =14mg/L (48h, Daphnia magna) EC50: =423mg/L (24h, Daphnia magna)

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bio accumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture
Not Applicable

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources.
The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA;	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

End of SDS