SAFETY DATA SHEET

Curator Turf Blend Range

SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY	
1.1 PRODUCT IDENTIFIER:	Curator Hardwearing Blend Curator Parks Blend Curator Sun & Shade Blend Curator Turf Blend Curator Supertuff Couch Blend Curator Supertuff Kikuyu Blend
1.2 OTHER MEANS OF IDENTIFICATION	Visually appears as seed mixed with a blue prilled solid
1.3 RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE	To be used for establishing or maintain lawns and revegetating areas of soil disturbance.
1.4 SUPPLIERS DETAILS	Heritage Seeds Pty. Ltd 26 Prosperity Way South Dandenong, Vic 3175 Ph: 1800 007333 Email: Orders@heritageseeds.com.au
1.4 EMERGENCY PHONE NUMBER	**Emergency Tel: 1800 007333**

Section 2 – Hazard(s) Identification	
2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:	NOHSC (Safe Work Australia):
	Not classified as hazardous according to NOHSC criteria
	AUSTRALIAN DANGEROUS GOODS (ADG) CODE FOR TRANSPORT BY ROAD AND RAIL:
	Not classified as a dangerous good by the criteria of the ADG code
	UN Number
	None allocated
	Hazchem Code
	None allocated
	SUSDP (poison) Classification
	Not scheduled

2.2 OTHER HAZARDS	Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
	Not applicable as inorganic salt
	Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
	Not applicable as inorganic salt
	Other Hazards which do not result in classification
	None known
Section 3 – Composition and information on ingredients	
	NAME **CAS No.** Iron Oxide 1309-37-1 <5% Zinc Oxide 1314-13-2 <5% Non-Hazardous ingredients >90% There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section
Section 4 – First-aid measures	
4.1 DESCRIPTION OF FIRST AID MEASURES	EYE
	Wash out immediately with water, and if irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
	INHALATION:
	If dusts, fumes, aerosols or combustion products are inhaled remove from contaminated area and seek medical attention
	SKIN:
	Flush skin with running water (and soap if available). Remove contaminated clothing and shoes. Seek medical attention in event of irritation.
	INGESTION:
	If swallowed, immediately rinse mouth out with water. Give water to drink. Contact Poisons Information Center or doctor immediately. Induce vomiting if directed to do so.
	PROTECTION OF FIRST AIDERS
	No action shall be taken involving personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE and DELAYED	POTENTIAL ACUTE HEATH EFFECTS
	EYE – may cause mild irritation INHALATION – Prolonged contact may cause irritation to the nose and throat SKIN – may cause mild irritation, however it is unlikely to cause more than minor discomfort or effects such as itchiness or slight skin reddening INGESTION – May be harmful if swallowed in large quantities. Can cause gastric upset or diarrhoea if ingested.

	OVER-EXPOSURE SIGNS/SYMPTOMS
	No Specific Data
4.3 INDICATION OF ANY IMMEDIATE ATTENTION AND SPECIAL TREATMENT NEEDED	NOTES TO PHYSICIAN
	Treat symptomatically
	SPECIFIC TREATMENTS
	None
Section 5 – Fire-fighting Measures	
5.1 EXTINGUISHING MEDIA:	SUITABLE EXTINGUISHING MEDIA
	Not flammable. Use extinguishing media suited to burning materials.
	UNSUITABLE EXTINGUISHING MEDIA
	None
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	HAZARDS FROM THE SUBSTANCE OR MIXTURE
	None
	HAZARDOUS THERMAL DECOMPOSITION PRODUCTS
	Fire decomposition may give rise to toxic and noxious fumes of phosphorus oxides and ammonia
5.3 ADVICE FOR FIREFIGHTERS	SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS
	None specified
	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS
	Fire fighters should wear appropriate protective equipment including self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to AS/NZS 4967:2009 (EN 469 Europe; ANSI/NFPA 1971 –USA) will provide a basic level of protection for chemical incidents.
Section 6 – Accidental release measures	
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	FOR NON-EMERGENCY PERSONNEL
	Minor spills do not normally need any special cleanup measures. In the event of a major spill wear respiratory mask to avoid irritation.
	FOR EMERGENCY RESPONDERS
	See also the information in "For non-emergency personnel".
6.2 ENVIRONMENTAL PRECAUTIONS	Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. Inform the relevant authorities if a significant volume (over 100kg) of product has caused environmental pollution (sewers, waterways).
6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	SMALL SPILLS
	Sweep up
	LARGE SPILL
	Prevent entry into sewers, water courses, basements. Vacuum or sweep up material and place in a designated, labelled waste container.
6.4 REFERENCE TO OTHER SECTIONS	Refer Section 1 for Emergency contact information Refer Section 8 for information on personal protective equipment Refer Section 13 for additional waste treatment information

Section 7 – Handling and storage, including how the chemical may be safely used	
7.1 PROCEDURE FOR SAFE HANDLING	PROTECTIVE MEASURES
	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes and skin. Keep in the original bags or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse bags unless for similar use. Avoid dust formation
	ADVICE ON GENERAL OCCUPATIONAL HYGIENE
	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. See also Section 8 for additional information on hygiene measures.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	Store in accordance with local regulations. Store in original bags protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from reducing agents and combustible materials. Keep bags and containers tightly closed and sealed until ready for use. Bags and containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled bags or containers. Use appropriate containment to avoid environmental contamination.
Section 8 – Exposure controls and personal protection	
8.1 CONTROL PARAMETERS	OCCUPATIONAL EXPOSURE LIMITS
	The nature of this product makes it unlikely that the exposure limits will be approached in normal use General Nuisance dusts: **Source** / **Material** / **TWA mg/m³** Safe Work Australia Exposure Standards For airborne Contaminants / Product Dust (Amorphous silica/ Nuisance dusts) / 10
	DERIVED NO-EFFECT LEVELS (DNEL)
	None
8.2 EXPOSURE CONTROLS	APPROPRIATE ENGINEERING CONTROLS
	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. The risk of inhalation of dust must be minimised so use local exhaust ventilation or other engineering controls to keep worker exposure below the recommended statutory limits.
	INDIVIDUAL PROTECTION MEASURES

	Hygiene Wash hands, exposed forearms and face thoroughly after handling chemical products, before eating, smoking and using the toilet and at the end of the working period. Eye/Face Protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusty environment. (AZ/NZS 1336 – Australia, EN166 – Europe, ANSI Z87.1 - USA Skin Protection *Hand Protection* – Wear gloves when using this product to protech against skin irritation. Cover open wounds. *Body Protection* – Additional protective clothing such as sleevelets, aprons or disposable suits should be used depending on the task being performed. Under normal conditions of handling and use, no additional skin protection measures should be necessary Respiratory Protection In the case of inadequate ventilation wear respiratory protection conforming to approved standard (AS/NZS 1715 – Australia, ANSI Z88 – USA, EN 132-149 – Europe). Use Particle filter with medium efficiency for solid and liquid particles (eg. EN 143 or 149, Type P2 or FFP2, N95) Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of relevant environment protection legislation and regulations.
Section 9 – Physical and chemical properties	
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES	APPEARANCE

Physical state:	Solid
Colour	Natural seed with blue prills
Odour	Odourless.
pH	Not available.
Melting point /freezing point	No data
Decomposition temperature	Not applicable
Flash point	Non Flammable
Vapour pressure	Not available.
Density	No data
Solubility(ies)	The fertalizer component is easily soluble in the following materials: cold water and hot water.

	Solubility at room temperature	Not applicable
	Partition coefficient: n-octanol/water	Not applicable.
	Viscosity	Not Available
	Explosive Properties	None
	Oxidising Properties	None
9.2 OTHER INFORMATION	No Additional Information	
Section 10 – Stability and reactivity		
10.1 REACTIVITY	This product is unlikely to react or decompose under normal storage conditions	
10.2 CHEMICAL STABILITY	Product is stable under recommended storage and handling conditions	
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	Unlikely	
10.4 CONDITIONS TO AVOID	Store away from direct sunlight and moisture, extreme temperatures and flames.	
10.5 INCOMPATIBLE MATERIALS	Strong Oxidizers	
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Hazardous decomposition products should not be produced under normal conditions of use and handling	
Section 11 – Toxicological information		
11.1 INFORMATION ON TOXICOLOGICAL EFFECTS	ACUTE TOXICITY	
	Review of toxicity data for the ingredients in the mixture revealed that the product shows low toxicity to humans	
	IRRITATION/CORROSION	
	Skin May be mildly irritating to the skin Eyes May be mildly irritating to the eyes Respiratory May be mildly irritating to the nose and throat on contact with large volumes of airborne dust.	
	SENSITISATION	
	Summary *Skin* – Non-sensitiser to skin *Respiratory* – Non sensitiser	
	MUTAGENICITY	
	No applicable data	
	CARCINOGENICITY	
	No applicable data	
	REPRODUCTIVE TOXICITY	
	No applicable data	
	TERATOGENICITY	
	No applicable data	
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	

	No applicable data
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)
	No Applicable data
	ASPIRATION HAZARD
	No Applicable data
11.7 INFORMATION ON THE LIKELY ROUTES OF EXPOSURE	Anticipated route of entry is Ingestion (Oral) <u>Potential Acute Health Effects</u> *Ingestion* – No known significant effects or critical hazards *Eye – may cause eye irritation* *Skin* - may cause skin irritation <u>Potential Chronic Health Effects</u> No Specific data available
11.8 SYMPTOMS RELATED TO THE PHYSICAL CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS	
	No Known significant effects or critical hazards
11.9 DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE	SHORT TERM EXPOSURE
	<u>Potential Immediate Effects</u> Adverse health effects are considered unlikely when product used according to label instructions <u>Potential Delayed Effects</u> None Identified
	LONG TERM EXPOSURE
	<u>Potential Immediate Effects</u> Adverse health effects are considered unlikely when product used according to label instructions <u>Potential Delayed Effects</u> None Identified
	POTENTIAL CHRONIC EFFECTS
	General - No known significant effects or critical hazards.
Section 12 – Ecological information	
12.1 TOXICTY	Avoid contamination of waterways Aqautic Toxity rating: TLM96: 000-100ppm
	<u>Conclusion/Summary</u> The product does not show any bioaccumulation phenomena. The product is not expected to harm the environment when used properly according to directions.
12.2 PERSISTENCE AND DEGRADABILITY	Fertilizer component is readily biodegradable in plants and soils

12.3 BIOACCUMULATIVE POTENTIAL	Not Available
12.4 MOBILITY IN SOIL	This product may move with surface or groundwater flows because its water solubility is:> 100g/L
12.5 RESULTS OF PBT vPvB ASSESSMENT	PBT
	Not applicable PBT: Specified
	vPvB
	Not Applicable vPvB: Specified
12.6 OTHER ADVERSE EFFECTS	No known significant effects or critical hazards
Section 13 – Disposal considerations	
13.1 WASTE TREATMENT METHODS	PRODUCT
	<u>Disposal Method</u> The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the sewer but may be suitable for landfill dependant on state legislation. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. <u>Hazardous Waste</u> The classification of the product may meet criteria for a hazardous waste depending on state legislation.
	PACKAGING
	<u>Disposal Method</u> The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling not feasible. <u>Special Precautions</u> This material and its container must be disposed of in a safe way. Care should be taken when handling emptied bags or containers that have not been cleaned or rinsed out Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers.
Section 14 – Transport information	
14.1 TRANSPORTATION NEEDS ADG CODE:	This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.
14.2 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/&* AND THE IBC CODE	Not applicable

Section 15 – Regulatory information	
15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE	EU REGULATION (EC) No. 1907/2006 (REACH) Annex XIV – List of Substances subject to authorisation Substances of very high concern None of the components are listed. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable
Section 16 – Any other relevant information	
	This document was prepared in accordance with the Code of Practice: Preparation of safety data sheets for hazardous chemicals, Safework Australia (December, 2011) and Annex 4 of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The document should be used for guidance only in conjunction with appropriately skilled and knowledgeable persons and appropriate equipment. This document is copyright and may not be used unless permitted by the Copyright Act 1968