

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Accuturf 43-0-0

**Other means of identification**

**Synonyms** 43-0-0 Reg XCU

**Product code** R540351

**Recommended use of the chemical and restrictions on use**

**Recommended use** Fertiliser.

**Restrictions on use** None known.

**Details of manufacturer or importer**

**Manufacturer**

**Manufacturer/Supplier**

Turfgrass Specialists Ltd  
38 Hannigan Dr, Mt Wellington,  
Auckland  
Telephone No. 09 572 8001

**Emergency**

National Poisons Centre. Ph. 0800 POISON (0800 764 766)

## 2. Hazard(s) identification

**Classification of the hazardous chemical** EPA Approval No. HSR002808

**Physical hazards** Not classified.

**Environmental hazards** Not classified.

**Label elements, including precautionary statements**

**Hazard symbol(s)**



**Signal word** Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.3B	H315	Causes mild skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
9.3C		Harmful to terrestrial vertebrates	

**Precautionary Statement(s)**

**Prevention** Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

**Response** If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Other hazards which do not result in classification** None known.

### 3. Composition/information on ingredients

#### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Urea	57-13-6	85 - 95
Sulphur	7704-34-9	4 - 13
Polymer coating	N/A	< 5
Dye	-	< 0.02

**Composition comments** The full text for all H-statements is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.

### 4. First-aid measures

#### Description of necessary first aid measures

**Inhalation** Move to fresh air. Get medical attention if any discomfort continues.

**Skin contact** Wash contact areas with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Dust in the eyes: Do not rub eyes. Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.

**Ingestion** Rinse mouth thoroughly. Get medical attention if any discomfort continues. For advice, contact a Poisons Information Centre (Phone e.g. Australia 13 1126; New Zealand 0800 764 766) or a doctor (at once).

**Personal protection for first-aid responders** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Symptoms caused by exposure** Eye contact: Symptoms can include irritation, redness, scratching of the cornea, and tearing.  
Skin contact: Causes skin irritation.  
Dust may irritate throat and respiratory system and cause coughing.

**Medical attention and special treatment** Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical** Urea is non-combustible under most conditions. However, during a fire, irritating/toxic gases may be generated. The dust can be ignited at very high temperatures, but not expected to explode (minimum ignition temperature (cloud) = 900 deg C).

**Special protective equipment and precautions for fire fighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire fighting equipment/instructions** Move containers from fire area if you can do it without risk. Use water spray to prevent dust formation, absorb heat, keep containers cool and protect fire-exposed material.

**Hazchem Code** Not available.

**General fire hazards** Bulk material is non-combustible.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Avoid inhalation of dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. For personal protection, see section 8 of the SDS.

**For emergency responders** Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers or watercourses.

**Methods and materials for containment and cleaning up**

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. After removal flush contaminated area thoroughly with water.

**Other issues relating to spills and releases**

Never return spills to original containers for re-use.  
Clean up in accordance with all applicable regulations.

**7. Handling and storage**

**Precautions for safe handling**

Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use only with adequate ventilation. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials.

**8. Exposure controls and personal protection**

**Control parameters**

Follow standard monitoring procedures.

**Occupational exposure limits**

**WES. (Workplace Exposure Limits)**

Components	Type	Value	Form
Dust	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Inhalable particles.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of dust.

**Individual protection measures, for example personal protective equipment (PPE)**

**Eye/face protection**

Use tight fitting goggles if dust is generated.

**Skin protection**

**Hand protection**

Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

**Other**

Risk of contact: Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practices.

**9. Physical and chemical properties**

**Appearance**

<b>Physical State</b>	Solid
<b>Form</b>	Granular Solid
<b>Colour</b>	Blue Green
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting point/freezing point</b>	134°C
<b>Evaporation Rate</b>	Not available

<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	624 g/l 20°C
<b>Partition coefficient (n-octanol/water)</b>	< -1.73
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other physical and chemical parameters</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidising.

## 10. Stability and reactivity

<b>Reactivity</b>	Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates causing fire and explosion hazard.
<b>Chemical stability</b>	Normally stable. May gradually give off ammonia. The product is hygroscopic and will absorb water by contact with the moisture in the air.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Conditions to avoid</b>	Moisture. High temperatures. Contact with incompatible materials.
<b>Incompatible materials</b>	Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates causing fire and explosion hazard. Strong oxidising agents. Nitric acid Nitrites.
<b>Hazardous decomposition products</b>	Carbon oxides. Nitrogen oxides (NOx). Ammonia. Biuret.

## 11. Toxicological information

### Information on possible routes of exposure

<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing. May be harmful if inhaled.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Dust may irritate the eyes.
<b>Ingestion</b>	May cause discomfort if swallowed.

**Symptoms related to exposure** Symptoms can include irritation, redness, scratching of the cornea, and tearing.

**Acute toxicity** May cause discomfort if swallowed.

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Sulphur (CAS 7704-34-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, 24 hours
<i>Inhalation</i>		
LC50	Rat	> 5.43 g/m <sup>3</sup> , 4 hours
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
Urea (CAS 57-13-6)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	14300 mg/kg

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/irritation</b>	May cause irritation through mechanical abrasion.
<b>Respiratory or skin sensitisation</b>	
<b>Respiratory sensitisation</b>	Not classified.
<b>Skin sensitisation</b>	Not a skin sensitiser.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organ toxicity - single exposure</b>	Inhalation of dusts may cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
<b>Other information</b>	No other specific acute or chronic health impact noted.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species		Test results
Sulphur (CAS 7704-34-9)			
<b>Aquatic</b>			
Crustacea	EC50	Daphnia magna	> 5 µg/l, 48 hours
Fish	LC50	Oncorhynchus mykiss	> 5 µg/l, 96 hours
Urea (CAS 57-13-6)			
<b>Aquatic</b>			
Fish	LC50		> 6810 mg/l, 96 hours

**Persistence and degradability** No data available.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

XCU® fertilizer (all grades)	< -1.73
Urea (CAS 57-13-6)	-2.11

**Mobility in soil** The product is water soluble and may spread in water systems. This product is water soluble and may disperse in soil.

**Other adverse effects** No data available.

## 13. Disposal considerations

**Disposal methods** Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

**Residual waste** Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

Not regulated as dangerous goods.

## 15. Regulatory information

### Safety, health and environmental regulations

**National regulations** This Safety Data Sheet was prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals. No poison schedule number allocated.

## 16. Other information

<b>Issue date</b>	02-July-2015
<b>Revision date</b>	-
<b>Key abbreviations or acronyms used</b>	LC50: Lethal Concentration, 50%. LD50: Lethal Dose, 50%.
<b>References</b>	ECHA CHEM EPA: Acquire database HSDB® - Hazardous Substances Data Bank RTECS

### Disclaimer

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