

# SAFETY DATA SHEET

## 1. Product and company identification

**Product name** DURATION CR® SOP 180 Day 0-0-50  
**Product code** C110504  
**Manufacturer/Supplier** Turfgrass Specialists Ltd  
 38 Hannigan Dr, Mt Wellington,  
 Auckland  
 Telephone No. 09 572 8001

**Emergency telephone number** National Poisons Centre. Ph. 0800 POISON (0800 764 766)

### Recommended use and Limitations on use

**Recommended use** Fertiliser.

**2. Hazards identification** EPA Approval No. HSR002571

### GHS classification

**Physical hazards** Not classified.  
**Health hazards** Skin corrosion/irritation Category 3  
**Environmental hazards** Not classified.

### Label elements

**Symbols** None.  
**Signal word** Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.3B	H315	Causes mild skin irritation.	Skin Irrit. 2

**Prevention** Observe good industrial hygiene practices.  
**Response** If skin irritation occurs: Get medical advice/attention.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.

## 3. Composition/information on ingredients

**Substance or mixture** Mixture

Chemical property	CAS Number	Concentration (%)
Potassium sulphate	7778-80-5	97 - 100
Non-Hazardous Ingredients	Proprietary	< 1
Polymer Coating	Mixture	< 5

**Composition comments** 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

**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.

<b>Potential delayed effects</b>	Eye contact: Symptoms can include irritation, redness, scratching of the cornea, and tearing. Skin contact: May cause mild skin irritation. Dust may irritate throat and respiratory system and cause coughing.
<b>Personal protection for first-aid responders</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Notes to physician</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Extinguishing media to avoid</b>	None known.
<b>HAZCHEM Code Number</b>	None.
<b>Specific hazards during fire fighting</b>	During fire, gases hazardous to health may be formed.
<b>Special fire fighting procedures</b>	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.
<b>Protection of fire-fighters</b>	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Hazards from combustion products</b>	Carbon oxides. Nitrogen Oxides Cyanide compounds. Ammonia. Biuret.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Avoid inhalation of dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. Use personal protection recommended in Section 8 of the SDS.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers or watercourses.
<b>Spill cleanup methods</b>	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. 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.  Never return spills to original containers for re-use.

## 7. Handling and storage

<b>Handling</b>	
<b>Precautions</b>	Minimize dust generation and accumulation. Avoid inhalation of dust and contact with skin and eyes. Provide adequate ventilation.
<b>Safe handling advice</b>	Observe good industrial hygiene practices. Use personal protection recommended in Section 8 of the SDS.
<b>Prevention of fire and explosion</b>	No specific recommendations.
<b>Local and general ventilation</b>	Provide appropriate exhaust ventilation at places where dust is formed.
<b>Storage</b>	
<b>Suitable storage conditions</b>	Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
<b>Incompatible materials</b>	For further information, please refer to section 10 of the SDS.
<b>Safe packaging materials</b>	Store in original tightly closed container.

## 8. Exposure controls/personal protection

### Exposure limits

#### New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value	Form
Dust	TWA	3 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Dust	TWA	3 mg/m <sup>3</sup>	Respirable particles.
		10 mg/m <sup>3</sup>	Inhalable particles.

## UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Dust	TWA	4 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable dust. Inhalable dust.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).		
<b>Engineering controls</b>	Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.		
<b>Personal protective equipment</b>			
<b>Respiratory protection</b>	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.		
<b>Hand protection</b>	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
<b>Skin protection</b>	Wear suitable protective clothing. Normal work clothing (long sleeved shirts and long pants) is recommended.		
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).		
<b>Radioactive or thermal hazards</b>	Follow standard monitoring procedures.		
<b>Hygiene measures</b>	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.		

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Granular solid.
<b>Color</b>	Brown to light brown.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Flash point</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor density</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Other data</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Moisture. High temperatures. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ). Phosphorus oxides.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological information

### Information on likely routes of exposure

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

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

Components	Species	Test Results
Potassium sulphate (CAS 7778-80-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/day, 24 hours
<i>Inhalation</i>		
LC50	Sprague-Dawley rat	3.6 mg/m <sup>3</sup> , 4 hours
<i>Oral</i>		
LC50	Sprague-Dawley rat	> 2000 mg/kg

**Routes of exposure** Skin. Eyes. Ingestion. Inhalation.

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

**Skin corrosion/irritation** Causes mild skin irritation.

**Serious eye damage/eye irritation** May cause irritation through mechanical abrasion.

**Respiratory sensitizer** Based on available data, the classification criteria are not met.

**Skin sensitizer** Not a skin sensitizer.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Toxic to reproduction** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**Relevant negative data** Not available.

**Other information** No other specific acute or chronic health impact noted.

## 12. Ecological information

### Ecotoxicological data

Components	Species	Test Results
Potassium sulphate (CAS 7778-80-5)		
<b>Aquatic</b>		
Algae	EC50 Chlorella vulgaris	2700 mg/l, 18 days
Crustacea	LC50 Daphnia magna	720 mg/l, 48 hours
Fish	LC50 Lepomis macrochirus	2550 mg/l, 96 hours
	Pimephales promelas	680 mg/l, 96 hours

**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.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulation** No data available.

**Partition coefficient n-octanol/water (log Kow)** Not available.

**Bioconcentration factor (BCF)** Not available.

**Mobility** This product is miscible in water.

**Other hazardous effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special precautions** Dispose in accordance with all applicable regulations.

### 14. Transport information

**IATA**  
Not regulated as dangerous goods.

**IMDG**  
Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable. However, the product is covered under Appendix I of the IMSBC Code.

### 15. Regulatory information

**Applicable regulations** No further national regulatory information.

### 16. Other information

**References**  
ECHA CHEM  
EPA: Acquire database  
HSDB® - Hazardous Substances Data Bank  
RTECS

**Issued by**  
Not available.

**Prepared by**  
Not available.

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