



# IRON GRANULES (IRON OXYSULFATE)

**WARNING**



This product is classified as a Schedule S5 Poison.

It is classified as Hazardous according to SafeWork Australia criteria.

This product carries the hazard statements:

Harmful if swallowed

Causes skin and serious eye irritation

## ANALYSIS

### Nutrient content

- |              |             |          |
|--------------|-------------|----------|
| • Sulfur (S) | as sulphate | 9.7% w/w |
| • Iron (Fe)  | as sulphate | 8% w/w   |
| • Iron (Fe)  | as oxide    | 17% w/w  |
| • TOTAL IRON | Total       | 25% w/w  |

### Heavy metal impurities

- |                |                 |
|----------------|-----------------|
| • Cadmium (Cd) | 15 mg/kg (max)  |
| • Lead (Pb)    | 20 mg/kg (max)  |
| • Mercury (Hg) | 0.5 mg/kg (max) |



**WARNING:** This product contains heavy metal impurities. Its use may result in accumulation of cadmium and mercury in the soil. Depending on soil characteristics, irrigation water quality, plant species and variety, crop uptake of cadmium may lead to residue limits in plant and animal products in excess of the maximum level specified by the Australia New Zealand Food Standards Code. In pasture, the offal from grazing animals may also exceed these limits.

## IRON DEFICIENCY

While iron is only required in trace amounts by plants, it is abundant in the earth's crust. Total iron concentrations in the soil are often round 2.5%. Any problem with iron supply to plants is therefore one of availability in the soil, and not the amount in the soil. In soils in which iron deficiency occurs, iron fertiliser can be rapidly fixed, and the effects short lived. Fixation occurs most rapidly on alkaline (high pH) soils.

Because iron is subject to "fixation", it is often necessary to use high application rates (compared to other trace elements), and to apply these on a regular basis. Soil applications are generally only recommended on acid soils. In most situations, foliar sprays are recommended. They are usually more cost effective and allow lower rates to be used.

## DIRECTIONS FOR USE

Iron Granules is a granulated iron oxysulphate fertiliser for dry application to the soil. It is not fully soluble and therefore is unsuitable for use in the preparation of liquid fertilisers.

Iron Granules is primarily intended for use in **lawns, playing fields and turf**. A typical application rate is 20 kg/ha (200 g/100 m<sup>2</sup>). As lawn grasses are shallow rooted and feed close to the soil surface, plant utilization of iron broadcast on the soil surface tends to be better than in deeper-rooted crops.

Foliar sprays are recommended in most cropping situations. If iron is applied to the soil in crops, band applications are likely to be more effective than broadcast applications. As a guide, apply:

- 40 kg/ha on heavy clay soils, and
- 2.5 – 10 kg/ha on sandy soils.

Higher rates may be required. In strawberries, apply 1 – 2 g/m of row.

## FURTHER READING

These "Use Directions" should be read in conjunction with the Incitec Pivot "Iron" Agritopic.

## SAFETY DIRECTIONS

Avoid ingestion and inhaling product. Avoid contact with the eyes and skin. Wash hands after use.

## FIRST AID

If swallowed, or you feel unwell, call the Poisons Information Centre (131 126), or a doctor. Rinse mouth. If in eyes, hold eyelids apart and flush continuously with running water for several minutes.



Remove contact lenses, if present and easy to do. If on skin, wash with soap and running water.  
Remove contaminated clothing.

## CARE OF EQUIPMENT

This product can be corrosive to metals. Clean equipment after use and follow manufacturer`s maintenance advice.

## SAFETY DIRECTIONS

Refer to the Safety Data Sheet (SDS) for more detailed safety advice. Before use, read the Product Label and the SDS. Use safe work practices and avoid contact with the eyes and skin. Avoid ingestion and inhaling dust. Protective clothing, eyewear and dust masks should always be used when dealing with this product. Observe good personal hygiene, including washing hands after use. Avoid loss of fertiliser to waterways.

## WARNING

This document contains information of a general nature. Before using fertiliser seek independent agronomic advice. Fertiliser programs may need to be varied depending on the plants being grown, climatic and soil conditions, application methods, irrigation, agricultural and livestock management practices, the soil`s fertility, and cultural practices. ('Unforeseen Elements')

Fertiliser may burn and/or damage crop roots or foliage. Foliar burn to the leaves, fruit or other plant parts is most likely to occur when fertilisers are foliar applied at high concentrations and/or on a regular basis, different products are mixed and sprayed together at cumulatively high rates, the water is of poor quality, or the spray is applied under hot dry conditions, e.g. in the heat of the day.

Fertiliser and supplements may affect animal health. Seek independent advice before using any supplements in livestock rations.

## DISCLAIMER

As Unforeseen Elements are beyond the control of Incitec Pivot Limited, in no event Incitec Pivot Limited and its related bodies corporate be liable or accept any responsibility whatsoever for any direct, indirect, punitive, incidental, special or consequential damages (including but not limited to loss of revenue, crops and livestock), in respect of the illness, injury or death of a person, damage to property (including of a third party), or any other loss whatsoever arising out of or connected with the use or misuse of this fertiliser, or its transport, storage, handling or application. Where Incitec Pivot Limited and its related bodies corporate`s liability cannot be lawfully excused, it and its related bodies corporate`s liability shall be limited to the replacement of, or cost of the fertiliser supplied. The buyer accepts and uses this product subject to these conditions.

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