



# Safety Data Sheet

## Ferrous Sulphate


UPDATED: 03 October 2020

### Section 1: SUBSTANCE IDENTIFICATION & SUPPLIER

|   |  |
|---|--|
| <b>Product Name:</b>                        | <b>Ferrous Sulphate Monohydrate - Used in Lawn &amp; Iron Fertiliser</b> |
| <b>Other Names:</b>                         | Sulfuric acid, iron salt monohydrate                                     |
| <b>Chemical Formula:</b>                    | FeSO <sub>4</sub> .H <sub>2</sub> O                                      |
| <b>Recommended Use:</b>                     | Fertiliser   |
| <b>Company Identification:</b>              | Morton Smith - Dawe Limited  |
| <b>Address:</b>                             | 396 Wigram Road, Halswell, Christchurch<br>PO Box 37 - 139 Halswell      |
| <b>Customer Centre:</b>                     | 03 322 8117  |
| <b>National Poisons Information Centre:</b> | 0800 POISON ( 0800 764 766)  |
| <b>Emergency Phone Number:</b>              | 0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)                   |
| <b>Transport Emergency Phone Number:</b>    | 111 - Tell operator what service is needed: Fire, Ambulance or Police    |

### Section 2: HAZARD IDENTIFICATION

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

|                                |   |
|--------------------------------|---|
| <b>EPA Approval No:</b>        | Fertilisers (subsidiary) - HSR002571  |
| <b>Pictograms</b>              |  |
| <b>Signal Word:</b>            | DA  |
| <b>Hazard Classifications:</b> | 6.1D, 9.3C  |
| <b>Priority Identifiers:</b>   | WARNING<br>KEEP OUT OF REACH OF CHILDREN  |
| <b>Secondary Identifiers:</b>  | 6.1D = Harmful if swallowed<br>9.3C = Harmful to terrestrial vertebrates            |

### Section 3: COMPOSITION IDENTIFICATION

| INGREDIENT                   | CAS No.    | CONTENT |
|------------------------------|------------|---------|
| Ferrous Sulphate Monohydrate | 13463-43-9 | 100%    |

## Section 4: FIRST AID MEASURES

|                            |   |
|----------------------------|---|
| <b>First Aid Measures:</b> | Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.                             |
| <b>Routes of Exposure:</b> |   |
| <b>If in eyes:</b>         | Flush with plenty of water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Seek medical attention. |
| <b>If on skin</b>          | Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse.   |
| <b>If Ingested:</b>        | Never give anything by mouth to an unconscious person. Rinse mouth but DO NOT induce vomiting. Seek medical advice.   |
| <b>If Inhaled:</b>         | Remove patient to fresh air. Keep at rest in comfortable position for breathing. Seek medical assistance if effects persist.                                |
| <b>Advice to Doctor:</b>   | Treat symptomatically.  |

## Section 5: FIRE FIGHTING MEASURES

|                                       |  |
|---------------------------------------|--|
| <b>Hazard Type</b>                    | Not applicable (non-flammable)   |
| <b>Hazardous Combustion Products:</b> | Sulphur dioxide  |
| <b>Extinguishing Media:</b>           | Water. Use water fog to cool intact containers. Prevent run-off from entering waterways. |
| <b>Protective Equipment:</b>          | Full protective clothing and equipment including SCBA.                                   |
| <b>HAZCHEM Code:</b>                  |  |


## Section 6: ACCIDENTAL RELEASE MEASURES

|   |
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| <b>Personal precautions, protective equipment and emergency procedures:</b>   |
| For appropriate personal protective equipment see section 8.  |
| <b>Environmental precautions:</b>   |
| Avoid unintended release of excessive amounts into waterways or sewers. If spill does enter waterway contact local authority.                                       |
| <b>Methods and material for containment and cleaning up:</b>  |
| Wear appropriate protective clothing. Contain spill and sweep up. Collect and place in sealable containers. Avoid generating dust. Reuse or recycle where possible. |

## Section 7: HANDLING AND STORAGE

|                           |   |
|---------------------------|---|
| <b>Handling:</b>          | Avoid generating dusts, do not breathe dusts. Use only outdoors or in a well-ventilated area. Avoid contact with material.<br><b>Approved Handler:</b> Not required<br><b>Tracking:</b> Not required<br><b>Record Keeping:</b> Not required           |
| <b>Storage:</b>           | Store in a cool, dry, well-ventilated area. Store away from foodstuffs.   |
| <b>Other Information:</b> | Keep out of reach of children.<br>Keep away from heat or incompatible materials (oxidizing materials)<br>Wash hands thoroughly after handling.<br>Do not eat, drink or smoke when using this product.<br>Avoid unintended release to the environment. |

## Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

|   |   |
|---|---|
| <b>Exposure Limits:</b>   | <b>Workplace Exposure Standards (WES):</b> Particulates not otherwise classified:<br>Inspirable dust: 10mg.m-3<br>Respirable dust: 3mg.m-3<br><b>Total Exposure Limit (TEL): Not assigned</b> |
| <b>Personal Protection Equipment:</b>   |   |
|  |   |
| <b>Engineering Controls:</b>  | Handle in well-ventilation area. If dust generated use local extraction to control. Avoid inhalation of dust.   |
| <b>Hygiene Precautions:</b>   | Remove protective clothing and wash hands and face after working with substance.  |

## Section 9: PHYSICAL & CHEMICAL PROPERTIES

|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>Appearance:</b>                | Off-White, White to light Grey     |
| <b>Odour:</b>                     | Odourless                          |
| <b>Format:</b>                    | Crystals/Granules                  |
| <b>Gravity:</b>                   | Not available                      |
| <b>pH:</b>                        | (50g.L-1 in water, 20°C) 2.4 – 2.8 |
| <b>Boiling Point:</b>             | Not available                      |
| <b>Melting Point:</b>             | 64°C                               |
| <b>Bulk Density:</b>              | 1250 kg/m3 (typical)               |
| <b>Vapour Pressure:</b>           | Not available                      |
| <b>Vapour Density:</b>            | Not available                      |
| <b>Water Solubility:</b>          | Soluble                            |
| <b>Auto-Ignition Temperature:</b> | Not applicable                     |

## Section 10: STABILITY & REACTIVITY

|  |                                 |
|--|---------------------------------|
| <b>Stability of Substance:</b>           | Stable under normal conditions. |
| <b>Hazardous Polymerisation:</b>         | Will not occur.                 |
| <b>Hazardous Decomposition Products:</b> | Sulphur dioxide                 |
| <b>Conditions to Avoid:</b>              | Ignition sources, heat.         |
| <b>Materials to Avoid:</b>               | Oxidising materials             |
| <b>Hygroscopic:</b>                      | Yes                             |

## Section 11: TOXICOLOGICAL INFORMATION

|                                |   |
|--------------------------------|---|
| <b>Hazard Classifications:</b> | 6.1D  |
| <b>Ingestion:</b>              | May lead to nausea, vomiting, diarrhea, constipation, gastrointestinal tract disturbances. May also affect central nervous system, cardiovascular system, liver, kidneys. |
| <b>Dermal:</b>                 | Not applicable.   |
| <b>Inhalation:</b>             | Irritant. May cause respiratory tract irritation (nose & throat).   |
| <b>Skin:</b>                   | Mild Irritant. Prolonged and repeated skin exposure may result in irritation.   |
| <b>Eye:</b>                    | Irritant. Exposure to dusts may result in irritation and lachrymation (tears).  |
| <b>Chronic Effects:</b>        | Not anticipated   |
| <b>Other Information:</b>      | No adverse health effects expected under normal conditions. Avoid eye and skin exposure and inhalation.   |
| <b>Toxicity Data:</b>          | LD50 (oral, rat) 319 mg.kg-1  |

## Section 12: ECOLOGICAL INFORMATION

|                                |  |
|--------------------------------|--|
| <b>Hazard Classifications:</b> | 9.3C.  |
| <b>Ecotoxicity:</b>            | Avoid unintended release and washing excessive amounts into streams and waterways. |

## Section 13: DISPOSAL INFORMATION

|                            |  |
|----------------------------|--|
| <b>Disposal Method:</b>    | Observe any local authority restrictions that may apply. Collection into sealable containers and dispose of in an approved land fill. If practicable apply excess fertiliser at recommended rates to appropriate land. Reuse material where practicable. |
| <b>Container Disposal:</b> | Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.   |

## Section 14: TRANSPORT INFORMATION

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>UN Number:</b>            | None Assigned                     |
| <b>Proper Shipping Name:</b> | Ferrous Sulphate                  |
| <b>DG Class:</b>             | Not applicable                    |
| <b>UN Packing Group:</b>     | Not applicable                    |
| <b>Other Information:</b>    | No special transport requirements |

## Section 15: REGULATORY INFORMATION

|                           |   |
|---------------------------|---|
| <b>EPA Approval Code:</b> | Approved pursuant to the HSNO Act 1996<br>See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls. |
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## Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown and supersedes all previous versions.

### Disclaimer

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Please contact Morton Smith - Dawe, if further information is required.

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