



SAFETY DATA SHEET

Product Name: 3-0-3 +2MgO 4Fe granular fertiliser

Revision number: 001(First version) Dated: 05/12/17

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Product Name: 3-0-3 +2% MgO +4% Fe granular fertiliser

Product Number: 3-0-3/2/4/...

1.2 Relevant Identified Uses: Horticultural fertiliser

1.3 **Advance Grass Solutions Ltd**, Unit 6 Norcot Industrial Estate,
Sterling Way, Tilehurst, Reading, Berkshire RG30 6HW
+44 (0) 1183 91454 info@advancegrass.com

1.4 Emergency Telephone Number:

+44 (0) 118 3914540 – Normal hours are 07:30-16:30 Mon-Fri.

+44 (0) 7789 935208 – Out of normal hours only.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance of mixture according to Regulation (EC) No.1272/2008:

Physical hazards: None

Health hazards: Eye irritation (Section 3.3, category 2).
Causes skin irritation (3.3, cat. 2)

Environmental hazards: None

2.2 Label elements:

Pictogram: 

Signal word: Warning

Hazard statements:

H code	Statement
H319	Causes eye irritation
H315	Causes skin irritation
H302	Harmful if swallowed

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Precautionary statements:

P code	Statement
P280	Wear protective gloves/clothing/eye protection/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so
P501	Dispose of contents/container according to local and national provisions for hazardous waste.

Supplementary precautionary statements:

Code	Statement
P261	Do not breathe dust
P262	Do not get in eyes, on skin or on clothing
P271	Use only outdoors or in a well ventilated area

2.3 Other hazards:

This product is not classified as PBT or vPvB according to current EU criteria.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS.

Substance	CAS Number	EC Number	REACH Registration Number	%	Classification according to Regulation (EC) No 1278/2008 (CLP)
Ferrous Sulphate	17375-41-6	605-688-1	N/A	4	Acute toxicity, Category 4, oral; H302 Eye irritation, Category 2; H319 Skin irritation, Category 2; H315
All other ingredients do not require classification according to Regulation (EC) No 1278/2008 (CLP)					

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

4.1.1 Inhalation: Move affected person to fresh air immediately. Keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

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4.1.2 Skin Contact: Rinse with plenty of water. Remove contaminated clothing and wash thoroughly with detergent before re-use. If irritation persists or worsens seek medical attention.

4.1.3 Eye Contact: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.

4.1.4 Ingestion: Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Inhalation: High inhalation exposures can exert mechanical irritations of the mucosa of the respiratory tract.

4.2.2 Skin contact: Skin irritant. Contact may cause redness, itching, burning and skin damage.

4.2.3 Eye contact: Eye irritant. Contact may cause stinging, watering, redness and swelling.

4.2.4 Ingestion: Nausea, vomiting, diarrhoea, abdominal pain, hypotension, haematemesis, fever. Lack of symptoms within the first 6 hours makes significant toxicity unlikely.

4.3 Indication of any immediate medical attention and special treatment needed:

General information: None under normal use

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Substance is incombustible. Select fire fighting measures according to the surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

May give off fumes if heated to decomposition. Do not breathe fumes.

5.3 Advice for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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Use water spray to cool unopened containers, Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2 Environmental precautions:

Avoid pollution of sewers and watercourses. May release ammonium ions that are toxic to fish. Release to watercourses may cause effects downstream.

6.3 Methods and material for containment and cleaning up:

Contain and sweep up spillages. Place unusable material in clearly labelled containers or plastic bags for disposal. Wet residues are slippery, wash floors to remove all traces.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid spilling. Avoid contact with skin and eyes. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust. Avoid inhalation of dust. Wash hands thoroughly after handling. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

7.2 Conditions for safe storage, including any incompatibilities:

Keep dry. Packs should be stored closed to avoid moisture ingress. Avoid prolonged contact with metals. Do not use food containers for storage due to risk of mistake.

Conditions of collocated storage:

Storage class 10 - 13 (Other liquids and solids)

Only substances of the same storage class should be stored together.

Collocated storage with the following substances is prohibited:

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- Pharmaceuticals, foods, and animal feeds including additives.
- Infectious, radioactive and explosive substances.
- Strongly oxidizing substances of storage class 5.1A.





7.3 Specific end uses: For use only as a horticultural fertiliser.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

N/A

8.2 Exposure Controls:

Protective equipment 	Dust mask with minimum protection factor of 10 with HSE type approval
	Nitrile gloves may be worn for personal hygiene purposes
	Wear coverall and rubber boots when dealing with bulk spillages
 	Face shield (BS2092G1) if handling dust
Appropriate Engineering controls	Provide adequate ventilation Avoid inhalation of dust Observe any occupational exposure limits for the product Mechanical ventilation or local exhaust ventilation may be required
Eye/face protection	Wear tight-fitting chemical splash goggles or face shield Personal protective equipment for eye and face protection should comply with European Standard EN166
Hand protection	Chemical resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and	Provide eyewash station and safety shower. Wear appropriate

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body protection	clothing to prevent skin contact
Hygiene measures	Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. Particulate filters should comply with European Standard EN143. Disposable filtering half-mask respirators should comply with European Standard EN149 or EN405

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Granular solid (mini 1-2mm/grad 2-3mm)
Colour	Multicolour
Odour	Possible slight ammonia
Odour threshold	Not determined
pH value	N/A
Initial melting point (°C)	N/A
Initial boiling point and boiling range(°C)	N/A
Flash point	N/A
Flammability(solid)	Product is non-flammable
Ignition temperature(°C)	N/A
Decomposition temperature(°C)	N/A
Self-flammability(°C)	Product is not self-igniting
Danger of explosion(°C)	N/A
Vapour pressure	N/A
Bulk density	N/A
Vapour density	N/A
Evaporation rate	N/A
Solubility in/miscibility with water at 20 °C	N/A
Partition coefficient(n-	N/A

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octanol/water)	
Viscosity dynamic at 20 °C	N/A

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

Stable product under recommended storage and handling conditions.

10.2 Chemical stability:

Stable product under recommended storage and handling conditions.

10.3 Possible hazardous reactions:

Risk of explosion in contact with:

alkali chlorate/acid

alkali nitrate + potassium

alkali nitrate + potassium sodium alloy

alkali nitrate/acid

potassium nitrite

sodium hypochlorite

The substance can react dangerously with:

alkali chlorate/heat

alkali nitrate/heat

10.4 Conditions to avoid:

Mildly corrosive if left in contact with ferrous metals. Water/moisture.

Heating may generate the following products: Toxic gases or vapours.

10.5 Incompatible materials:

Strong acids.

Strong oxidising agents.

Powdered metal.

Inorganic peroxides.

10.6 Hazardous decomposition products:

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Nitrous gases
Ammonia
Isocyanic acid
Phosphorous oxides

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:**

Acute toxicity	Acute toxicity, Category 4, oral; H302
Skin corrosion/irritation	Skin irritation, Category 2; H315
Serious eye damage/irritation	Eye irritation, Category 2; H319
Respiratory or skin sensitisation	Based on available data the classification criteria are not met
Germ cell mutagenicity	Based on available data the classification criteria are not met
Carcinogenicity	Based on available data the classification criteria are not met
Reproductive toxicity	Based on available data the classification criteria are not met
STOT-single exposure	Based on available data the classification criteria are not met
STOT-repeated exposure	Based on available data the classification criteria are not met
Aspiration hazard	Not applicable
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system
Ingestion	May cause discomfort if swallowed
Likely routes of exposure	Contact with skin and eyes. Inhalation of dust

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity:**

May release ammonium ions that are toxic to fish. Unionized ammonia concentrations > 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream.

12.2 Persistence and degradability:

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Product is biodegradable.

12.3 Bioaccumulative potential:

Product does not bioaccumulate.

12.4 Mobility in soil:

Not determined

12.5 Results of PBT and vPvB assessment:

Does not fulfil the criteria for classification as PBT or vPvB.

12.6 Other adverse effects:

None known.

SECTION 13. DISPOSAL CONSIDERATION

Product: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local waste disposal authority. Residues should be taken care of as hazardous waste according to local and national provisions.

Packaging: Treat as industrial waste. Empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 14. TRANSPORT INFORMATION

General information:

This product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)

14.1 UN Number:

N/A

14.2 UN proper shipping name:

N/A

14.3 Transport hazard class(es):

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No transport warning sign required.

14.4 Packing group:

N/A

14.5 Environmental hazards:

None

14.6 Special precaution for user:

N/A

14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC code:

N/A

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance: Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16. OTHER INFORMATION

Key literature references and sources for data:

http://gestis.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates&fn=default.htm&vid=gestiseng:sdbeng

<https://echa.europa.eu/>

<http://www.chcs.org.uk/>

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Further information: The information contained in this leaflet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up-to-date information at the time of publication. Providing our products are handled and used in accordance with the label instructions, they should offer no hazard to health or safety.