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SAFETY DATA SHEET
Controlled release fertilisers

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Product name: Controlled release fertilisers
Product code: Multi-Purpose F-VG
Rose & Shrub F-VH
Ericaceous F-VI

1.2 Relevant uses of the substance or mixture and uses advised against:

Granulated fertilizer for horticulture and agriculture

1.3 Details of the supplier of the safety data sheet:

Doff Portland Limited
Aerial Way
Hucknall
Nottingham
NG15 6DW
UK

Telephone number: +44 (0) 115 9834 300

Email: help@doff.co.uk

1.4 Emergency phone number

Emergency telephone number: +44 (0) 115 9834 300 (office hours only)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION according to Regulation EC 1272/2008 Classification, Labelling and Packaging

Not classified

2.2 Label Elements

Pictogram: [None]

Signal word: [None]

Hazard statements: [None]

Precautionary statements: [None]

2.3 Other Hazards

Mixture not classed as PBT or vPvB

Product forms slippery surface when combined with water



3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Preparation

Substance name	Contents	CAS-no.	EC-no.	REACH	Classification
Ammonium nitrate [1]	Between 1 and 70 %	6484-52-2	229-347-8	01-2119490981-27-XXXX	Ox. Liq. 3;H272 Eye Irrit. 2;H319
Potassium sulfate	Between 1 and 60 %	7778-80-5	231-915-5	01-2119489441-34-0015; 0058	Not Classified
Monoammonium-Phosphate (MAP)	Between 1 and 40 %	7722-76-1	231-764-5	01-2119488166-29-0025; 0049	Not Classified
Calcium sulfate	Between 1 and 35 %	7778-18-9	231-900-3	01-2119444918-26-0097; 0169	Not Classified
Diammonium phosphate (DAP)	Between 1 and 35 %	7783-28-0 23	1-987-8	01-2119490974-22-XXXX; 0046	Not Classified
Ammonium sulphate	Between 1 and 30 %	7783-20-2	231-984-1	01-2119455044-46-0064; 0101	Not Classified
Calcium bis (dihydrogen orthophosphate)	Between 1 and 20 %	7758-23-8	231-837-1	01-2119490065-39-0003; 0010	Eye Dam. 1:H318
Calcium Magnesium Carbonate (*)	Between 1 and 20%	16389-88-1	240-440-2	EXEMPTED	Not Classified
Magnesium oxide (*)	Between 0,1 and 7%	1309-48-4	215-171-9	EXEMPTED	Not Classified
Magnesium Sulfate (*)	Between 0.1 and 25%	7487-88-9	231-298-2	EXEMPTED	Not Classified

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Components:

Within the present knowledge of the supplier, this product is not hazardous but contains hazardous components in quantities requiring reporting in this section, in accordance with EU regulations or national regulations.

Composition:

Mixture containing above mentioned component(s) plus a polymer which is exempt from REACH classification Regulation no. EC1907/2006 as coating component.

Mixtures containing less than 80% ammonium nitrate are not classified Irritating to eyes (Fertilizers Europe study July 2011).

Nitrogen (and magnesium if present in the product) neutralizes free acidity of superphosphates (calcium phosphates), the fertilizer is then not classified Irritating to eyes (Fertilizers Europe study Dec. 2014).

The presence of magnesium is indicated on the product label if it reaches the minimum allowed declaration level.

4.0. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Inhalation

Avoid breathing dust. If inhaled, remove to fresh air.

4.1.2 Skin & Eye exposure



Skin: Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with soap and water. Get medical attention if irritation develops. Remove contaminated clothing.

Eyes: In case of contact with eyes, rinse immediately with a copious amount of water. Get medical attention if irritation develops.

4.1.3 Ingestion

If large quantities of this material are swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth. Give water to drink if victim is completely conscious/alert.

4.1.4 Protection of first aiders

Low hazard for usual industrial or commercial handling.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

4.2.2 Skin & Eye exposure

Skin: No significant effects or critical hazards.

Eyes: Dust from this product may cause eye irritation.

4.2.3 Ingestion

Health hazard if ingested in large quantities (gastro intestinal disorders). In extreme cases, formation of methaemoglobin – “Blue baby syndrome” - and cyanosis may occur.

4.3 Indications of any immediate medical attention and special treatment needed

Notes to physician

In case of inhalation of toxic decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

No specific treatment.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable

Use water in flooding quantities.

Not suitable

CO₂, foam, sand.

5.2 Special hazards arising from the substance or mixture

Hazardous thermal decomposition products

Decomposition products may include the following materials:



Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia. Avoid breathing dusts, vapors or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The product is not flammable but may accelerate the burning of other combustible materials.

5.3 Advice for firefighters

Special precautions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming European Standard EN469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).

6.2 Environmental Precautions

Minimise contact of spilled material with soils to prevent runoff to surface waterways.

6.3 Methods and material for containment and cleaning up

Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Absorb with dry sand or other non-combustible material. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways. See section 13 for waste disposal information.

6.4 Reference to other sections

Note: See sections 7, 8, 13.

7. Handling and storage

7.1 Precaution for safe handling

Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.

Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Keep away from food, drink, and animal feeding stuff.

Both local exhaust and general room ventilation are usually required.

Handle in accordance with good industrial hygiene and safety procedures. Minimize generation of dust.

7.2 Conditions for safe storage, including any incompatibilities

Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with combustible materials. On farm keep away from hay, grain, diesel etc.

7.3 Specific end use(s)

See section 1.2



8. Exposure controls/personal protection

8.1 Control Parameters

Occupational exposure limits: Total inhalable dust (TLV-TWA) : 10 mg/m³
Respirable dust: 4 mg/m³

8.2 Exposure controls

Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Use dust goggles if high dust concentration is generated.

Skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Ingestion

When using, do not eat, drink or smoke.

Industrial hygiene

Provide local exhaust or general room ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Solid, granules

Colour: Light brownish granules, inside grey

Odour: Light

Odour threshold: Not determined

pH: 10 (Conc. (% w / w) > 4.5

Melting/freezing point: Decomposes below melting point

Boiling point: Decomposes below boiling point

Flash point: Not applicable (solid)

Evaporation rate: Not determined (solid)

Flammability: Not determined (non flammable solid)

Explosion limits

Upper: Not classified as explosive according to EC criteria

Lower: Not classified as explosive according to EC criteria

Vapour pressure: not applicable (not volatile)

Vapour density: loose bulk density 0.9 to 1.3 g/cm³

Specific gravity: No data

Solubility: soluble in water

Partition coefficient: n-octanol/water: Not applicable (inorganic solid)

Auto-ignition temperature: Not applicable (non flammable solid)



Decomposition temperature: Decomposition > 130 °C depending on composition

Viscosity: Not applicable (solid)

Explosive properties: None

Oxidising properties: None

9.2 Other Information

No other relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

See 10.2

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Under normal conditions none.

10.4 Conditions to avoid

Heat, open flame, prevent contamination with irrelevant materials

10.5 Incompatible materials

Organic materials, reducing agents, acids, alkalis, oxidizing agents, metallic powders and substances containing metals such as copper, nickel, cobalt, zinc and their alloys.

10.6 Hazardous decomposition products

These products can be carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), ammonia (NH₃).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Potential health effects

Adverse health effects are considered unlikely, when the product is used according to directions.

Signs and Symptoms of Over-exposure

Target organs: Contains material which causes damage to the following organs: skin, eyes, lens or cornea.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecological effects information Low toxicity to aquatic life.

LC50-96 hour – fish (mg/l) No data available.

12.2 Persistence and degradability

No known significant effects or critical hazards.

12.3 Bioaccumulative potential



No known significant effects or critical hazards.

12.4 Mobility in soil

This product may move with surface or groundwater flows because its water solubility is high.

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Used in excess quantities the product can cause eutrophication.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Methods of disposal:

Empty containers or liners may retain some product residues. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in accordance with all applicable local and national regulations.

Hazardous waste:

To present knowledge of the supplier, this product is not regarded as hazardous waste as defined in EU Directive 2001/118/EC.

14. TRANSPORT INFORMATION

14.1 UN number: Not regulated

14.2 UN proper shipping name: Not regulated

14.3 Transport hazard: Not regulated

14.4 Packing group: Not regulated

14.5 Environmental hazards: None

14.6 Special precautions for user: None

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

Not applicable.

14.8 IMSBC

Proper shipping name: Ammonium Nitrate based Fertilizer (Non Hazardous)

Class: Not applicable

Group: C

15. REGULATORY INFORMATION

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

This substance is classified and labelled in accordance with regulation 1272/2008 and 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical Safety Assessment (CSA)



No data available.

16. OTHER INFORMATION

Abbreviations:

LC/LD50	Lethal Concentration/Dose 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative

SDS information:

This safety data sheet is compiled using data submitted for raw materials and practical experience. This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with regulation 1272/2008 and 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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