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SAFETY DATA SHEET

Doff Multi-Purpose Feed

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

1.1 Product Identifier:

Product name: Doff Multi-Purpose Feed

Product code: F-JP-xxx-DOF

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

Supplied for use as a fertiliser

Uses advised against: None

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

Product Name:

Pictogram: [None]

Signal word: [None]

Hazard statements: [None]

Precautionary statements: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.



2.3 Other Hazards

Mixture not classed as PBT (Persistent, Bioaccumulative, Toxic) or vPvB (very Persistent, very Bioaccumulative)

EUH208 — Contains reaction mass of: 5-chloro2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Name:	CAS/EC No.	Index No./REACH Registration No.	Pictogram(s) according to 1272/2008:	H-phrases according to 1272/2008:	Concentrations [% w/w]
reaction mass of: 5-chloro2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9/ -	613-167-00-5/ -	 GHS06  GHS05  GHS09	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	≤ 0.001

Occupational exposure limits, if available, are listed in section 8

4.0. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Inhalation

Avoid inhalation of vapour, spray or mist. If inhaled, remove to fresh air. Get medical attention if you feel unwell.

4.1.2 Skin & Eye exposure

Skin contact: Take off contaminated clothing and wash exposed skin areas with mild soap and water, Rinse with warm water. Consult a doctor if irritation develops.

Eye contact: Rinse with plenty of running water. Check for and remove any contact lenses. Blink frequently. Get medical treatment if irritation occurs.

4.1.3 Ingestion

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects persist or are severe.

4.2 Most important symptoms and effects, both acute and delayed



Potential acute health effects

Eye contact: No known significant effects or critical hazards.
Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact: May produce an allergic reaction.
Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

No specific data.

4.3 Indications of any immediate medical attention and special treatment needed

Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of 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 data.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable

Use water spray, fog or foam, carbon dioxide. Use an extinguishing agent suitable for the surrounding fire.
Use water spray to cool containers.

Not suitable

No information available.

5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

Carbon Dioxide

Carbon Monoxide

Nitrogen Oxides

Halogenated compounds

Metal Oxide/Oxides

Ammonia

Avoid breathing dusts, vapours or fumes from burning materials.

In case of inhalation of decomposition products in a fire, Symptoms may be delayed.

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 to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid all contact with skin, eyes and clothing. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of information in Section 8. See also information in “For non-emergency personnel”

6.2 Environmental Precautions

Clean up any spills as soon as possible, using an absorbent material to collect it. Prevent entry into sewers and drinking water or into public waters. Assure conformity with the local regulations before discharging into sewage treatment facilities. Inform the authorities.

6.3 Methods and material for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it.

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. If water insoluble absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Prevent entry into sewers and water courses. Contain and collect spillage with non-combustible absorbent material e.g. sand, earth. Wash spillage into an effluent treatment plant or; contain and collect spillage with non-combustible absorbent material and place in container for disposal via a licenced waste contractor.

6.4 Reference to other sections

Note: see SECTION 1 for emergency contact information, SECTION 8 for personal protection and section 13 for waste disposal.

7. Handling and storage

7.1 Precaution for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and faces before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store at moderate temperatures 0 – 30 deg., C. Do not use containers made of copper and its alloys or galvanised containers.



7.3 Specific end use(s)

Supplied for use as a fertiliser.

8. Exposure controls/personal protection

8.1 Control Parameters

Occupational exposure Limits: None set for components.
In general avoid any unnecessary exposure.

8.2 Exposure controls

Good ventilation should be sufficient to control worker exposure to airborne contaminants.

Process conditions:	Provide eyewash station.
Engineering measures:	Provide adequate ventilation.
Hand protection:	Wear appropriate chemical-resistant gloves.
Eye protection:	Wear anti-splash glasses (or) safety glasses.
Other protection:	Wear suitable protective clothing as protection against splashing or contamination.
Hygiene measures:	Wash hands at end of each work shift and before eating, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Sediment-free liquid
Colour: Green
Odour: Slight
Odour threshold: No data
pH: 6.20 – 7.20
Melting Point/freezing point: no data
Initial boiling point and boiling range: no data
Flash point: No data
Evaporation rate: No data
Flammability: Not flammable.
Vapour pressure: No data
Specific gravity: 1.13 – 1.17
Solubility: miscible with water
Partition coefficient: n-octanol/water No data
Auto-ignition temperature: No data
Decomposition temperature: No data
Viscosity: Not applicable
Explosive properties: No data
Oxidising properties: No data

9.2 Other Information

No other relevant information available.

10. STABILITY AND REACTIVITY



10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid

Avoid contamination by any source including metals, dust and organic materials.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards are given in section 3

Acute toxicity:	Not expected to be toxic.
Skin corrosion/irritation:	Product is not classified as causing skin irritation.
Serious eye damage/irritation:	Product is not classified as causing serious eye damage/irritation.
Skin sensitisation:	Product is not classified as causing skin sensitisation.
Germ cell mutagenicity:	No information specified.
Carcinogenicity:	No information specified.
Reproductive toxicity:	No information specified.
STOT-single exposure:	Product is not classified as having Specific Target Organ Toxicity for single exposure.
STOT-repeated exposure:	Product is not classified as having Specific Target Organ Toxicity for repeated exposure.
Aspiration hazard:	Not classified for aspiration hazard.

Potential health effects

Inhalation:	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards, but may produce an allergic reaction in sensitised individuals.
Eye contact:	No known significant effects or critical hazards.

Information on ingredients where available:



reaction mass of: 5-chloro2-methyl-4-isothiazolin3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol3-one [EC no. 220-239-6] (3:1)

Acute oral toxicity: Acute toxicity estimate: 100.0 mg/kg
Method: Converted acute toxicity point estimate

Acute inhalation toxicity: LC50 (Rat): 0.31 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity: Acute toxicity estimate: 300 mg/kg
Method: Converted acute toxicity point estimate

Sensitisation:
Exposure routes: Dermal
Species: Guinea pig
Result: May cause sensitisation by skin contact.

Source: SDS, Laxness, 02/01/19

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Conclusion/summary: No known significant effects or critical hazards.

Information on ingredients where available:

reaction mass of: 5-chloro2-methyl-4-isothiazolin3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol3-one [EC no. 220-239-6] (3:1)

Toxicity to fish: LC50 (Danio rerio (zebra fish)): 0.58 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 1.02 mg/l
Exposure time: 48 h

Toxicity to algae: EC50 (Pseudokirchneriella subcapitata (green algae)): 0.379 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 0.188 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Short-term (acute) aquatic hazard): 1
M-Factor (Long-term (chronic) aquatic hazard): 1

Source: SDS, Laxness, 02/01/19

12.2 Persistence and degradability

Conclusion/summary: No known significant effects or critical hazards.

12.3 Bioaccumulative potential

Conclusion/summary: No known significant effects or critical hazards.



12.4 Mobility in soil

No information.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be PBT or vPvB.

12.6 Other adverse effects

No known significant effects or critical hazards.

13.DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Methods of disposal:

The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste:

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

14. TRANSPORT INFORMATION

This product is not hazardous for transportation

14.1 UN number: Not applicable

14.2 UN proper shipping name: Not applicable

14.3 Transport hazard: Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Product is not classified as harmful to the environment.

14.6 Special precautions for user: No information available

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

Applicable for Maritime bulk transport only. Check with carrier.

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)

CSA not undertaken for this substance



16. OTHER INFORMATION

Abbreviations:

Acute Tox. 2	Acute toxicity Category 2
Acute Tox. 3	Acute toxicity Category 3
Aquatic acute 1	Acute aquatic toxicity Category 1
Aquatic chronic 1	Chronic aquatic toxicity Category 1
LC/LD50	Lethal Concentration/Dose 50%
PBT	Persistent, Bioaccumulative, Toxic
Skin Corr. 1B	Skin corrosion Category 1B
Skin Sens. 1	Skin sensitising Category 1
vPvB	very Persistent, very Bioaccumulative

Other Hazard Information assigned to individual ingredients, but not carried to final classification:

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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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