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Revision number: 01
Supersedes: SDS dated 9th January 2019

SAFETY DATA SHEET

Doff Complete Lawn Feed, Weed & Moss Killer

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

1.1 Product Identifier:

Product names: Doff Complete Lawn Feed, Weed & Moss killer

Product codes: F-LM-XXX-DOF

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

Supplied for amateur use as a herbicide weed killer and moss killer

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

Eye Irritation 2 **H319** **Causes serious eye irritation.**

Aquatic Chronic 3 **H412** **Harmful to aquatic life with long lasting effects.**

2.2 Label Elements

Product Name: **Doff Complete Lawn Feed, Weed & Moss killer**

Pictogram(s):



Signal word: Warning

Hazard statements: **H319** **Causes serious eye irritation.**

H412 **Harmful to aquatic life with long lasting effects.**



- Precautionary statements:
- P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - P264 Wash Hands thoroughly after handling
 - P280 Wear protective gloves/protective 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. Continue rinsing.
 - P337 + P313 If eye irritation persists: Get medical advice/attention.
 - P391 Collect spillage
 - P501 Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste

2.3 Other Hazards





EUH208 — Contains 2,4-D. May produce an allergic reaction

EUH401 – To avoid risks to human health and the environment comply with the instructions for use.

Mixture not classed as PBT or vPvB

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Name:	CAS/EC No.	Index No./REACH Registration No.	Pictogram(s) according to 1272/2008:	H-phrase(s) according to 1272/2008:	Concentrations [% w/w]
Iron (II) sulfate heptahydrate	7782-63-0 231-753-5	Index No. 026-003-01-4	 GHS07	Acute Tox. 4 (Oral); H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	25 - 30
Single super phosphate	8011-76-5/ 232-379-5	-	 GHS05	Eye Dam. 1; H318	5.0 – 9.9
mecoprop-P [1] and its salts; (R)-2-(4-chloro-2-methylphenoxy)propionic acid	16484-77-8/ 240-539-0	Index No. 607-434-00-5	 GHS05  GHS07	Acute Tox. 4 (Oral); H302 Eye Dam. 1; H318 Aquatic Chronic 2; H411	< 0.5



			 GHS09		
(2,4-dichlorophenoxy) acetic acid, dimethylamine salt	2008-39-1/ 217-915-8	-	 GHS05 GHS07	Acute Tox. 4 (Oral); H302 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412	< 0.5

The full hazard information for individual components if not displayed in section 2 or 3 are displayed in Section 16.

4.0. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Inhalation

If symptoms arise remove from source of exposure to fresh air; seek medical attention.

4.1.2 Skin & Eye exposure

Skin: Drench immediately with water. Remove any contaminated clothing and launder before re-use. Obtain medical attention if symptoms persist or develop.

Eyes: Immediately rinse with clean water for 15 minutes. Obtain medical attention if symptoms occur or persist.

4.1.3 Ingestion

Do not induce vomiting. Wash out mouth with water and give water to drink. Obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May produce an allergic reaction.

See SECTION 11 for more detailed information on health effects and symptoms.

4.3 Indications of any immediate medical attention and special treatment needed

Notes to physician

No specific treatment. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

**Suitable**

Use Foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should be chosen as appropriate for surrounding materials.

Not suitable

No information available.

5.2 Special hazards arising from the substance or mixture

Possible irritant fumes arising from combustion

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.

Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment).

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.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Ensure adequate ventilation

Use personal protective equipment,

- Gloves
- Eye protection
- Suitable respirator if dust is generated during handling

6.2 Environmental Precautions

Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation) in large quantities contact local water authority and inform the Environment Agency

6.3 Methods and material for containment and cleaning up

Sweep avoiding generating dust into labelled containers for recovery or contact specialist waste disposal 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**



Avoid contact with skin and eyes. Ensure sufficient ventilation of the area. Wash Hands thoroughly after handling
Do not eat, drink or smoke when using this product

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height.

7.3 Specific end use(s)

The substance has not been assessed for the specified end-points listed in 1.2, so its hazardous property in this regard is not known

8. Exposure controls/personal protection

8.1 Control Parameters

Workplace exposure Limits as defined by UK HSE in document EH40/2005:

Substance	CAS number	Workplace Exposure Limit				Comments
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		
		ppm	mg.m ⁻³	ppm	mg.m ⁻³	
Iron salts (as Fe)		-	1	-	2	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances identified in IOELV Directives*

*IOELV – Indicative Occupational Exposure Limit Values (IOLEV).

8.2 Exposure controls

General

Avoid contact with skin, eyes and clothing.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure that there is sufficient ventilation of the area.

Eye and face protection

Wear tightly fitting safety goggles and Face shield that meet EN 166 a/o ANSI Z87.1 standards

Skin protection

When handling product wear chemical-resistant gloves.

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact. Always seek advice from glove suppliers. Select gloves approved to EU standard EN407.

Wear impermeable protective clothing, butyl rubber apron and boots.

Inhalation

Provide a good standard of general ventilation. Use outdoors or ensure adequate air changes.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Solid granules

Odour: not specified

Odour threshold: No data

pH: ca 3.0 (1% dilution in water)

Melting Point: No data

Initial boiling point and boiling range: Information not available

Flash point: Not flammable

Flammability: Not flammable

Explosion limits: No evidence of explosion risk

Vapour pressure: Information not available.

Vapour density: Not applicable

Bulk Density: Pour Density 0.9 g/ml Tap Density 0.94 g/mL

Solubility: Granules soluble in water

Partition coefficient: n-octanol/water Information not available.

Auto-ignition temperature: No data

Decomposition temperature: No data

Viscosity: Not applicable

9.2 Other Information

No other relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Unknown.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Information not available.

10.4 Conditions to avoid

Extremes of temperature.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Possible irritant fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects



Acute toxicity: Not expected to be toxic.
 Skin corrosion/irritation: Skin Irritation: Not classified as skin irritant (OECD No.439)
 Serious eye damage/irritation: Product is classified as irritating to eyes (OECD No.438)
 Skin sensitisation: Product is not classified as causing skin sensitisation. Due to the content of 2,4-D and it's classification as a skin sensitizer, EUH208 is applied.
 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: No information specified.
 Aspiration hazard: No information specified.

Toxicological information on hazardous ingredients where available:

Acute toxicity, Oral:

Active ingredient:	Source of endpoint:	Endpoint:
Iron sulphate	EFSA peer review endpoint, (EFSA journal 2012; 10 (1): 2521)	Oral LD50 (rat) 1185-1750 mg/kg bw/day
(2,4-dichlorophenoxy) acetic acid, dimethylamine salt	EFSA Journal 2014;12(9):3812	Rat LD50 >300 & <2000 mg/kg bw (H302) 'Harmful if swallowed'
mecoprop-P [1] and its salts; (R)-2-(4-chloro-2-methylphen-oxy)propionic acid	Supplier SDS	Rat LD50 775mg/kg (H302) 'Harmful if swallowed'

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Mixture classified as harmful to aquatic life with long lasting effects in accordance with Regulation EC 1272/2008.

12.2 Persistence and degradability

Information not available

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

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

Information not available.



13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Use only licensed waste disposal companies. Do not re-use empty containers for any purpose.

14. TRANSPORT INFORMATION

14.1 UN number: Not classified as dangerous for transport

14.2 UN proper shipping name: Not classified as dangerous for transport

14.3 Transport hazard: Not classified as dangerous for transport

14.4 Packing group: Not classified as dangerous for transport

14.5 Environmental hazards: Not classified as dangerous for transport

14.6 Special precautions for user: Not classified as dangerous for transport

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

Reasons for update:

Section 2.1	Change in classification;
Section 2.2	Change in pictograms and hazard phrases;
Section 3.2	Change in ingredient details, change in ingredient classification;
Section 11.1	Addition of toxicity data;
Section 14.1	Change in classification.

Abbreviations:

Acute Tox. 4 (Oral)	Acute Toxicity Category 4 (Oral)
Aquatic Chronic 2	Aquatic Chronic Category 2
Aquatic Chronic 3	Aquatic Chronic Category 3
Eye Dam. 1	Eye Damage Category 1
Eye Irrit. 2	Eye Irritation Category 2
LC/LD50	Lethal Concentration/Dose 50%
NOAEL	No Observed Adverse Effect Level
PBT	Persistent, Bioaccumulative, Toxic



Skin Irrit. 2	Skin Irritation Category 2
Skin Sens. 1	Skin Sensitisation Category 1
STOT	Specific Target Organ Toxicity
STOT SE3	Specific Target Organ Toxicity Single Exposure Category 3
vPvB	very Persistent, very Bioaccumulative

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

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation.
H411	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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