Date: 12th May 2020
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Revision number: 01
Supersedes: SDS dated 15th December 2016

SAFETY DATA SHEET
Doff Ant Killer

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

1.1 Product Identifier:

Product names: Doff Ant Killer

Product code: F-BB-xxx-DOF

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

Supplied for amateur use as an insecticide

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)

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Aquatic Acute Toxicity 1 H400 Very toxic to aquatic life.
Chronic Aquatic Toxicity 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label Elements

Product Name: **Doff Ant Killer**

Pictogram:

Signal word: Warning

Hazard statements: H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements: P102 Keep out of reach of children

P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment
P391 Collect spillage
P501 Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty containers which can be disposed of by recycling. Contact your local council for details.

2.3 Other Hazards

Mixture not classed as PBT or vPvB

EUH208 Contains permethrin (ISO). May produce an allergic reaction.

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

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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]**
Calcium carbonate	1317-65-3/ 215-279-6	-/-	None	None Substance with Workplace Exposure Limit	85 – 99.2
permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopro panecarboxylate	52645-53-1/ 258-067-9	613-058-00-2 / -	 GHS07  GHS09	Acute Tox. 4 (Oral); H302 Acute Tox. 4 (Inhalation: dust, mist); H332 Skin Sens. 1; H317 Aquatic Acute 1; H400 (M=1,000) Aquatic Chronic 1; H410 (M=1,000)	0.25 – 0.75
Silicic acid, calcium salt	1344-95-2/ 215-710-8	-/ 01-2119427745-34	None	None Substance with Workplace	0.25 – 0.50

				Exposure Limit	

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 INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration. In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.2 Skin & Eye exposure
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.

4.1.3 Ingestion
If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting.
Get immediate medical advice and attention.

4.2 Most important symptoms and effects, both acute and delayed
None reported.

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.

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5. FIRE-FIGHTING MEASURES
5.1 Extinguishing media
Suitable
Foam, dry chemical powder. Carbon dioxide (CO_2). Water fog.

Not suitable
High volume water jet.

5.2 Special hazards arising from the substance or mixture
Fire hazard: non-flammable.

5.3 Advice for firefighters
Precautionary measures fire : No open flames. No smoking.

Firefighting instructions : Evacuate and limit access. Use a water spray to cool exposed surfaces and to protect firefighters.
Protection during firefighting : Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection.
Other information : Do not allow run-off from fire fighting to enter drains or water courses.

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.

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
Emergency procedures : Evacuate the danger area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Consult an expert. Eliminate every possible source of ignition.

6.2 Environmental Precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

For containment : Prevent liquid from entering sewers, watercourses, underground or low areas. Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.
Other information : Avoid spilling the product, as this might cause falls.

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

Precautions for safe handling:
Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not allow to enter into surface water or drains.

Handling temperature:
Store at room temperature.

Hygiene measures:
Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures :	Ground well. Use explosion-proof equipment.
Storage conditions :	Keep out of direct sunlight.
Incompatible products :	Strong acids. Strong bases. Strong oxidizing agents.

Maximum storage period : 2 year(s)
Storage area : Keep container tightly closed and in well ventilated place. Install a retention tank.
Packaging materials : Keep only in the original container. Keep locked up and out of reach of children.

7.3 Specific end use(s)
Supplied for amateur use as an insecticide

8.Exposure controls/personal protection
8.1 Control Parameters
Workplace exposure Limits as defined by UK HSE in document EH40/2005 where available:

Substance	**CAS number**	**Workplace Exposure Limit**				**Comments**
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15 minute reference period)		The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances identified in IOELV Directives
		ppm	$mg.m^{-3}$	ppm	$mg.m^{-3}$	
Limestone Total inhalable respirable	1317-65-3	- -	10 4	- -	- -	-
Calcium silicate inhalable dust respirable	1344-95-2	- -	10 4	- -	- -	-

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
Colour: white
Odour: no data
Odour threshold: No data
pH: n/a
Melting Point: No data
Initial boiling point and boiling range: No data
Flash point: No data
Evaporation rate: No data
Flammability: No data
Explosion limits
Upper: No data
Lower: No data
Vapour pressure: No data
Vapour density: No data
Density: No data
Solubility: soluble in 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

When exposed to heat, may decompose liberating hazardous gases.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

None under normal conditions. For further information, refer to section 10 : "Stability and Reactivity".

10.4 Conditions to avoid

Keep out of direct sunlight. Avoid heat.

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

10.6 Hazardous decomposition products

In combustion, may emit toxic fumes.

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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

Permethrin (ISO)
Acute toxicity - Ingestion
Harmful if swallowed.
LD50 (rat): 850 mg/kg bw (OECD 401)

Acute toxicity - Skin Contact Not classified.
LD50 (rat) ≥2000 mg/kg bw (OECD 402)

Acute toxicity - Inhalation Harmful if inhaled.
Skin corrosion/irritation Not classified.
Rabbit: Non-irritant. (OECD 404)

Serious eye damage/irritation Not classified.
Non-irritant to rabbit eyes. (OECD 405)

Skin sensitization data May cause an allergic skin reaction.

Respiratory sensitization data Not classified.

Germ cell mutagenicity Not classified.
With/without metabolic activation with Chinese hamster ovary test substrate (OECD 473): No effect reported.
Bone marrow (mouse) – 2 dose/ 24H (OECD 475): No effect reported.

Carcinogenicity Not classified.
NOAEL (Oral) (rat): 75 mg/kg bw/day (OECD 453): No effect reported.

Reproductive toxicity Not classified.
NOAEL (rabbit): 500 mg/kg bw/day (OECD 414): No effect reported.
NOAEL(rat): 500 mg/kg bw/day (OECD 416): No effect reported.

Lactation Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

NOAEL (Oral) (rat): 8.6 mg/kg bw/day (OECD 408): No effect reported.

Aspiration hazard Not classified.

Source: Limaru SDS, 17/07/2017

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Mixture classified as very toxic to aquatic life with long lasting effects.

Permethrin (ISO)

Toxicity - Aquatic invertebrates EC50 (48 hour) (Daphnia magna): 0.002 mg/l
Toxicity - Fish LC50 (96 hour) (Rainbow trout): 13.7 µg/l
LC50 (96 hour) (Common Carp): 0.22 mg/l
Toxicity - Algae EC50 (72 hour) (Algae): 1.7 mg/l
Toxicity - Sediment Compartment Not classified.
Toxicity - Terrestrial Compartment Not classified

Source: Limaru SDS, 17/07/2017

12.2 Persistence and degradability

Permethrin disappears rapidly from the environment: in 6 to 24 h from ponds and streams; in 7 days from pond sediment; and in 58 days from foliage and soil in forests. Thirty per cent of the compound was lost within 1 week from cotton leaves in a field. In water and on soil surfaces, permethrin is photodegraded by sunlight. Ester cleavage and cis-trans interconversion are, as with plants, the major reactions.

12.3 Bioaccumulative potential

Permethrin is readily taken up by aquatic organisms: bioconcentration factors range from 43 to 750 for various organisms. In all the aquatic organisms studied, absorbed permethrin is also rapidly lost on transfer to clean water. There is no bioaccumulation in birds. Therefore, the compound, in practice, can be regarded as having no tendency to bioaccumulate.

12.4 Mobility in soil

No additional information available

12.5 Results of PBT and vPvB assessment

No additional information available

12.6 Other adverse effects

No additional information available

13.DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Additional information : Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Notify authorities if product enters sewers or public waters.

14. TRANSPORT INFORMATION

14.1 UN number: UN3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Permethrin)
14.3 Transport hazard: 9
14.4 Packing group: III
14.5 Environmental hazards: Environmentally hazardous substance/marine pollutant.
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.

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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.

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.2 Chemical Safety Assessment (CSA)
CSA not undertaken for this substance

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16. OTHER INFORMATION
Reasons for update
Updated to new format

Abbreviations:

Acute Tox. 4 (inhalation: dust, mist)	Acute Tox. 4 (inhalation: dust, mist) category 4
Acute Tox. 4 (oral)	Acute Tox. 4 (oral) category 4
Aquatic Acute 1	Aquatic Acute Toxicity category 1
Aquatic Chronic 1	Aquatic Chronic Toxicity category 1
LC/LD50	Lethal Concentration/Dose 50%
NOAEL	No Observed Adverse Effect Level
PBT	Persistent, Bioaccumulative, Toxic
STOT SE 3	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
H317	May cause an allergic skin reaction
H332	Harmful 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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