

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 05/04/2015 Revision date: 25/05/2018 Supersedes: 05/04/2015 Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

 CA Code (Nufarm)
 : 3030

 Product code
 : T095A

 Oracle Recipe Code (Nufarm)
 : 600000115

 Item codes
 : 100010020

 Product form
 : Mixture

Trade name : PASTURE MASTER

Type (Nufarm) : Country Specific

Country (Nufarm) : United Kingdom

Synonyms : (2,4-DICHLOROPHENOXY)ACETIC ACID/(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID,

DIMETHYLAMINE SALT 360/315 G/L AI

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance/mixture : Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Nufarm UK Limited Wyke Lane Wyke BD12 9EJ Bradford - UK

T +44 (0)1274 691234 - F +44 (0) 1274691176

infouk@uk.nufarm.com

1.4. Emergency telephone number

Emergency number : +44 (0)1274 696603

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category H318

1

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Danger

Hazardous ingredients : (2,4-DICHLOROPHENOXY)ACETIC ACID/(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID,

DIMETHYLAMINE SALTS

Hazard statements (CLP) : H318 - Causes serious eye damage

Precautionary statements (CLP) : P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor, a POISON CENTER.

 $P501 - Dispose \ of \ contents \ and \ container \ to \ hazardous \ or \ special \ waste \ collection \ point, \ in$

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accordance with local, regional, national and/or international regulation.

EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for

use.

Extra phrases : SP 1 - Do not contaminate water with the product or its container (Do not clean application

equipment near surface water/Avoid contamination via drains from farmyards and roads)

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|------|---|
| (2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT | (CAS-No.) 2008-39-1 (EC-No.) 217-915-8 | 36.3 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| (4-CHLORO-2-METHYLPHENOXY) ACETIC ACID, DIMETHYLAMINE SALT | (CAS-No.) 2039-46-5 (EC-No.) 218-014-2 | 33.4 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Call a

physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell. Do not induce vomiting. Give

500 ml water to drink.

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

Symptoms/effects after inhalation : May cause shortness of breath, tightness of the chest, a sore throat and cough.

Symptoms/effects after skin contact : Causes mild skin irritation. Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Abdominal pain, nausea. Ingestion may cause nausea and vomiting. May cause irritation to the

digestive tract.

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

Treat symptomatically. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment. Avoid the formation of mists in the atmosphere. Do not manipulate the

product in a confined space.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use.

Storage temperature : > 0 °C

Information on mixed storage : Keep away from food, drink and animal feeding stuffs. Storage area : Store away from heat. Store in a well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| (2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1) | | |
|--|------------------|-----------------|
| United Kingdom | WEL TWA (mg/m³) | 10 mg/m³ 8 H |
| United Kingdom | WEL STEL (mg/m³) | 20 mg/m³ 15 min |
| (4-CHLORO-2-METHYLPHENOXY) ACETIC ACID, DIMETHYLAMINE SALT (2039-46-5) | | |
| United Kingdom | WEL TWA (mg/m³) | 10 mg/m³ 8 h |
| United Kingdom | WEL STEL (mg/m³) | 20 mg/m³ 15 min |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Protective clothing. Gloves. Safety glasses.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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In case of insufficient ventilation, wear suitable respiratory equipment







Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidColour: Colourless.Odour: Amine-like.Odour threshold: No data available

pH : 7.5 - 9.5

Relative evaporation rate (butylacetate=1) : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : $> 100 \,^{\circ}\text{C}$ Flash point : $> 200 \,^{\circ}\text{C}$

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : 1.185 - 1.215

Solubility : Water: Miscible with water

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 34.7 Pa.s

Explosive properties : Product is not explosive.

Oxidising properties : Non oxidizing material according to EC criteria.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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| PASTURE MASTER | |
|-----------------------------------|--|
| LD50 oral rat | 2500 mg/kg 2,4 D/MCPA 345/345 g/L |
| LD50 dermal rat | > 2000 mg/kg 2,4 D/MCPA 345/345 g/L |
| LC50 inhalation rat (mg/l) | Not expected to present a significant inhalation hazard under anticipated conditions of normal use |
| (2,4-DICHLOROPHENOXY)ACETIC AC | ID, DIMETHYLAMINE SALT (2008-39-1) |
| LD50 oral rat | 625 mg/kg |
| LD50 dermal rabbit | 2115 mg/kg |
| cute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met) |
| cute toxicity (dermal) | : Not classified |
| cute toxicity (inhalation) | : Not classified |
| kin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) |
| | pH: 7.5 - 9.5 |
| Serious eye damage/irritation | : Causes serious eye damage. |
| | pH: 7.5 - 9.5 |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| | |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| TOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| spiration hazard | : Not classified (Based on available data, the classification criteria are not met) |

| | | ormation |
|--|--|----------|
| | | |
| | | |

| | 12.1 | | To | χi | ci | tν | |
|--|------|--|----|----|----|----|--|
|--|------|--|----|----|----|----|--|

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

| PASTURE MASTER | |
|-------------------------------|--------------------|
| LC50 fish 1 | > 357 mg/l |
| EC50 Daphnia 1 | > 342 |
| EC50 72h algae (1) | > 350 mg/l |
| EC50 72h algae (2) | 13.2 mg/l Lemna |
| NOEC (chronic) | > 342 mg/l Daphnia |
| NOEC chronic fish | > 357 |
| Additional Ecotox information | |

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)

Additional Ecotox information

(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID, DIMETHYLAMINE SALT (2039-46-5)

Additional Ecotox information

12.2. Persistence and degradability

| PASTURE MASTER | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |

12.3. Bioaccumulative potential

| Bioaccumulative potential Low bioaccumulation potential. | |
|--|--|

12.4. Mobility in soil

| PASTURE MASTER | |
|------------------|-----------------------|
| Mobility in soil | Adsorbs into the soil |

12.5. Results of PBT and vPvB assessment

PASTURE MASTER

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA |
|--|---------------|---------------|
| 14.1. UN number | | |
| Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | |
| Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | |
| Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | |
| Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | |
| Not regulated | Not regulated | Not regulated |
| No supplementary information available | | |

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : For Transport - ADR classification based on using own data and according to the criteria of

2.2.9.1.10.3 and 2.2.9.1.10.4 of ADR 2011.

Full text of H- and EUH-statements:

| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
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| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
|---------------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage |
| H332 | Harmful if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

NUFARM SDS TEMPLATE

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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