

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 29/05/2018 Supersedes: 07/05/2014 Version: 4.1

| SECTION 1: Identification of the | substance/mixture and of the company/undertaking |
|---|--|
| 1.1. Product identifier | |
| CA Code (Nufarm) | : 3190 |
| Product code | : U905A |
| Oracle Recipe Code (Nufarm) | : 600000138 |
| Item codes | : 100004805 |
| Product form | : Mixture |
| Trade name | : THRUST |
| Type (Nufarm) | : Country Specific |
| Country (Nufarm) | : United Kingdom |
| Synonyms | : 2,4-D/DICAMBA DMA, 344/120G/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 sa | fety data sheet |
| Nufarm UK Limited Wyke Lane Wyke BD12 9EJ Bradford - UK T +44 (0)1274 691234 - F +44 (0) 12746917 infouk@uk.nufarm.com | 176 |
| 1.4. Emergency telephone number | |
| Emergency number | : +44 (0)1274 696603 |
| SECTION 2: Hazards identification | on |
| 2.1. Classification of the substance | or mixture |
| Classification according to Regulation (E | C) No. 1272/2008 [CLP] |
| Acute toxicity (oral), Category 4 | H302 |
| Serious eye damage/eye irritation, Category | |
| 1 Skin sensitisation, Category 1 | H317 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 |
| Full text of hazard classes and H-statement | s : see section 16 |
| | |
| Adverse physicochemical, human health | and environmental effects |

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

| 2.2. | Label elements | |
|-----------|------------------------------|---|
| Labelli | ng according to Regulation (| EC) No. 1272/2008 [CLP] |
| Hazard | l pictograms (CLP) | |
| | | GHS05 GHS07 GHS09 |
| Signal | word (CLP) | : Danger |
| Hazard | lous ingredients | : (2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT, and 3,6-DICHLORO- OANISIC |
| Hazard | l statements (CLP) | H302 - Harmful if swallowed. H318 - Causes serious eye damage H317 - May cause an allergic skin reaction. |
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| | H411 - Toxic to aquatic life with long lasting effects. |
|--------------------------------|--|
| Precautionary statements (CLP) | P273 - Avoid release to the environment. P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. 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 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. |

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

| SECT | ION 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 | 35.7 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| 3,6-DICHLORO-O-ANISIC ACID, COMPOUND WITH DIMETHYLAMINE (1:1) | (CAS-No.) 2300-66-5 (EC-No.) 218-951-7 (EC Index-No.) 607-044-00-5 | 12.4 | Eye Irrit. 2, H319 Aquatic Chronic 3, H412 |

Full text of H-statements: see section 16

| 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 | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy t 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. |
| 4.2. Most important symptoms and effect | ts, both acute and delayed |
| Symptoms/effects after inhalation | : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : May cause irritation to the digestive tract. Ingestion may cause nausea and vomiting. Abdominal pain, nausea. |

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.

| | 5 1 5 6 5 5 | 5 | , | • |
|----------------|--|--|---|---|
| SECT | ION 5: Firefighting measures | | | |
| 5.1. | Extinguishing media | | | |
| Suitabl | e extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. | | |
| 5.2. | Special hazards arising from the su | bstance or mixture | | |
| Hazard fire | lous decomposition products in case of | : Toxic fumes may be released. | | |

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| 5.3. | Advice for firefighter | rs | | |
|----------|---|---|--|--|
| Protect | Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. | | | |
| SECT | SECTION 6: Accidental release measures | | | |
| 6.1. | I. Personal precautions, protective equipment and emergency procedures | | | |
| 6.1.1. | For non-emergency | personnel | | |
| Emerge | Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust, mist or spr | | | |
| 6.1.2. | For emergency resp | onders | | |
| Protect | ive equipment | | action without suitable protective equipment. For further information osure controls/personal protection". | |
| 6.2. | Environmental preca | autions | | |
| Avoid r | elease to the environmer | ıt. | | |
| 6.3. | Methods and materia | al for containment and cleaning up | | |
| For cor | ntainment | : Absorb spilled materia | with sand or earth. | |
| Method | ts for cleaning up | : Take up liquid spill into | absorbent material. | |
| Other in | ther information : Dispose of materials or solid residues at an authorized site. | | | |
| 6.4. | 6.4. Reference to other sections | | | |
| For fur | ther information refer to s | ection 8: "Exposure controls/personal prote | ction". For further information refer to section 13. | |
| SECT | ION 7: Handling ar | nd storage | | |
| 7.1. | Precautions for safe | handling | | |
| Precau | Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear person protective equipment. Avoid the formation of mists in the atmosphere. Do not manipulate the product in a confined space. | | | |
| Hygien | ene measures Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash has after handling the product. | | | |
| 7.2. | | storage, including any incompatibilities | | |
| Storage | e conditions | | ed place. Keep cool. Keep container closed when not in use. | |
| Storage | Storage temperature : > 10 °C | | | |
| 7.3. | Specific end use(s) | | | |
| No add | litional information availal | ble | | |
| SECT | SECTION 8: Exposure controls/personal protection | | | |
| 8.1. | 8.1. Control parameters | | | |
| (2,4-0 | (2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1) | | | |
| Unite | United Kingdom WEL TWA (mg/m ³) 10 mg/m ³ 8 H | | | |
| | | | | |

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.

20 mg/m³ 15 min

Personal protective equipment:

Protective clothing. Gloves. Safety glasses.

WEL STEL (mg/m³)

Hand protection:

United Kingdom

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 | : Liquid | |
| Colour | : brown. | |
| Odour | : Amine-like. | |
| Odour threshold | : No data available | |
| рН | : 6.5 - 8.5 | |
| pH solution concentration | : 10 (6 - 9) g/l | |
| Relative evaporation rate (butylacetate=1) | : No data available | |
| Melting point | : Not applicable | |
| Freezing point | : ≈0°C | |
| Boiling point | : > 100 °C | |
| Flash point | : No data available | |
| Auto-ignition temperature | : 425 °C | |
| 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 | : 1.152 - 1.165 | |
| Solubility | : Miscible with water. | |
| Log Pow | : -0.83 (2,4-D) | |
| Viscosity, kinematic | : No data available | |
| Viscosity, dynamic | : 10.6 mPa.s 20°C | |
| 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

| SECTI | ON 10: Stability and reactivity |
|-----------|--|
| 10.1. | Reactivity |
| The prod | uct is non-reactive under normal conditions of use, storage and transport. |
| 10.2. | Chemical stability |
| Stable ur | nder normal conditions. Recommended storage temperature>10°C. |
| 10.3. | Possibility of hazardous reactions |
| No dang | erous reactions known under normal conditions of use. |
| 10.4. | Conditions to avoid |
| None un | der recommended storage and handling conditions (see section 7). Heat. |
| 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.

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| SECTION 11: Toxicological information | | | |
|--|---|--|--|
| SECTION 11: Toxicological information | | | |
| 11.1. Information on toxicological effects | | | |
| THRUST | | | |
| LD50 oral rat | 1127 mg/kg | | |
| LD50 dermal rat | > 2000 mg/kg | | |
| (2,4-DICHLOROPHENOXY)ACETIC ACID, D | IMETHYLAMINE SALT (2008-39-1) | | |
| LD50 oral rat | 625 mg/kg | | |
| LD50 dermal rabbit | 2115 mg/kg | | |
| 3,6-DICHLORO-O-ANISIC ACID, COMPOUN | ID WITH DIMETHYLAMINE (1:1) (2300-66-5) | | |
| LD50 oral rat | 2629 mg/kg | | |
| LD50 dermal | > 2000 mg/kg rabbit | | |
| Acute toxicity (oral) | : Oral: Harmful if swallowed. | | |
| Acute toxicity (dermal) | : Not classified | | |
| Acute toxicity (inhalation) | : Not classified | | |
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) | | |
| | pH: 6.5 - 8.5 | | |
| Serious eye damage/irritation | : Causes serious eye damage. | | |
| | pH: 6.5 - 8.5 | | |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. | | |
| 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) | | |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) | | |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) | | |

| 2.1. Toxicity | | |
|---|--|--|
| cology - general | : Toxic to aquatic life with long lasting effects. | |
| cute aquatic toxicity | : Not classified | |
| hronic aquatic toxicity | : Toxic to aquatic life with long lasting effects. | |
| THRUST | | |
| LC50 fish 1 | > 1000 mg/l Oncorhynchus mykiss (Rainbow trout) | |
| LC50 fish 2 | > 1000 mg/l Cyprinus carpio (Common carp) | |
| EC50 Daphnia 1 | > 1000 mg/l | |
| EC50 72h algae (1) | 204.6 mg/l | |
| ErC50 (algae) | 7.348 mg/l Lemna Gibba; 7d | |
| NOEC (chronic) | 46.2 mg/l Daphnia Magna; 21d; (2,4-D) | |
| NOEC chronic fish | 63.4 mg/l Pimephales promelas; 32d; (2,4-D) | |
| NOEC chronic algae | 0.32 Lemna Gibba; 7d | |
| Additional Ecotox information | | |
| LD50 (oral) Apis mellifera (Honey bee) 24h; > 100 µg/Species LD50 (oral) Apis mellifera (Honey bee) 48h; > 100 µg/Species LD50 (contact) Apis mellifera (Honey bee) 96h; > 200 µg/Species | | |
| LC50 Eisenia fetida (earthworms) 14d; >1000ppm | | |
| semi-static test NOEC Oncorhynchus mykiss 21d; 180mg/l (Dicamba) semi-static test NOEC Daphnia magna 21d; 97mg/l (Dicamba) | | |
| (2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1) | | |
| Additional Ecotox information | | |
| 3,6-DICHLORO-O-ANISIC ACID, COMPOUND WITH DIMETHYLAMINE (1:1) (2300-66-5) | | |
| Additional Ecotox information | | |

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| 12.2. Persistence and degradability | | |
|--|--|---|
| THRUST | | |
| Persistence and degradability | Readily biodegradable. | |
| 12.3. Bioaccumulative potential | | |
| THRUST | | |
| Log Pow | -0.83 (2,4-D) | |
| Bioaccumulative potential | No bioaccumulation. | |
| • | | |
| 12.4. Mobility in soil | | |
| THRUST | | |
| Log Koc | Koc = 5 - 212 (2,4-D), Kfoc = 3.45 - 21.2 (Dicamba) | |
| Ecology - soil | Adsorbs into the soil. | |
| 12.5. Results of PBT and vPvB assessme | ent | |
| THRUST | | |
| This substance/mixture does not meet the PBT | - | |
| This substance/mixture does not meet the vPv | B criteria of REACH regulation, annex XIII | |
| 12.6. Other adverse effects | | |
| No additional information available | | |
| SECTION 13: Disposal consideration | ns | |
| 13.1. Waste treatment methods | | |
| Waste treatment methods | : Dispose of contents/container in accordance w | vith licensed collector's sorting instructions |
| | | |
| SECTION 14: Transport information | | |
| In accordance with ADR / RID / IMDG / IATA / A | DN | |
| | | |
| ADR | IMDG | ΙΑΤΑ |
| | IMDG | ΙΑΤΑ |
| 3082 | 3082 | 3082 |
| 14.1. UN number 3082 14.2. UN proper shipping name | 3082 | 3082 |
| 14.1. UN number 3082 | 3082 ENVIRONMENTALLY HAZARDOUS | 3082 Environmentally hazardous substance, liquid, |
| UN number 3082 14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((2,4- DICHLOROPHENOXY)ACETIC ACID, | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((2,4- DICHLOROPHENOXY)ACETIC ACID, | 3082 |
| UN number 3082 14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((2,4- DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT) | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((2,4- | 3082 Environmentally hazardous substance, liquid, n.o.s. ((2,4-DICHLOROPHENOXY)ACETIC |
| UN number 3082 14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((2,4- DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT) Transport document description | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((2,4- DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT) | 3082 Environmentally hazardous substance, liquid, n.o.s. ((2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT) |
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- Overland transportClassification code (ADR): M6Special provisions (ADR): 274, 335, 375, 601Limited quantities (ADR): 51Excepted quantities (ADR): E1

Safety Data Sheet

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

| according to Regulation (EC) No. 1907/2006 (REACH) wi | |
|--|----------------------------------|
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : PP1 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T4 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29 |
| Tank code (ADR) | : LGBV |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13 |
| Hazard identification number (Kemler No.) | : 90 |
| Orange plates | 90 3082 |
| Tunnel restriction code (ADR) | :- |
| EAC code | : •3Z |
| - Transport by sea | |
| Special provisions (IMDG) | : 274, 335, 969 |
| Limited quantities (IMDG) | : 5L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P001, LP01 |
| Special packing provisions (IMDG) | : PP1 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP2, TP29 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-F |
| Stowage category (IMDG) | : A |
| | |
| - Air transport | . 54 |
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y964 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 964 |
| PCA max net quantity (IATA) | : 450L |
| CAO packing instructions (IATA) | : 964 |
| CAO max net quantity (IATA) | : 450L |
| Special provisions (IATA) | : A97, A158, A197 |
| ERG code (IATA) | : 9L |
| 14.7. Transport in bulk according to Anne Not applicable | ex II of Marpol and the IBC Code |

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

Safety Data Sheet

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

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 (Oral) | Acute toxicity (oral), Category 4 |
|---------------------|---|
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful 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