

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.
Print dat	te 10/08/2018	GB - en 1/8

Safety Data Sheet

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

	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.

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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.		

Safety Data Sheet

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

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:

THRUST Safety Data Sheet

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

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.

Safety Data Sheet

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

SECTION 11: Toxicological information			
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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		

Safety Data Sheet

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

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
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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