

Safety Data Sheet

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

Date of issue: 07/01/2014 Revision date: 01/09/2019 Supersedes: 25/05/2018 Version: 2.0

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

Product identifier

CA Code (Nufarm) : 2773 : T701A Product code Oracle Recipe Code (Nufarm) : OR2773 : 110003860 Item codes Product form · Mixture

T2 GREEN PRO Trade name Type (Nufarm) : Country Specific Country (Nufarm) United Kingdom

(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID/(R)-2-(4-CHLORO-2-Synonyms

METHYLPHENOXY)PROPIONIC ACID/DICAMBA K salts

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

Uses advised against 1.2.2.

No additional information available

Details of the supplier of the safety data sheet

Manufacturer

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

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infouk@uk.nufarm.com

Emergency telephone number

Emergency number : +44 (0)1274 696603

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category H318

Hazardous to the aquatic environment — H400

Acute Hazard, Category 1

Hazardous to the aquatic environment — H410

Chronic Hazard, Category 1

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

Adverse physicochemical, human health and environmental effects

Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

Label elements

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

Hazard pictograms (CLP)





GHS09

Signal word (CLP) : Danger

(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID/(R)-2-(4-CHLORO-2-Hazardous ingredients

METHYLPHENOXY)PROPIONIC ACID/DICAMBA K salts

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

H410 - Very toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P273 - Avoid release to the environment.

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.

P391 - Collect spillage.

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous

waste.

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

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]
(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID, Potassium salt	(CAS-No.) 5221-16-9 (EC-No.) 226-015-4	25.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID, POTASSIUM SALT	(CAS-No.) 66423-05-0 (EC-No.) 240-539-0	4.4	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
POTASSIUM 3,6-DICHLORO-O-ANISATE	(CAS-No.) 10007-85-9 (EC-No.) 233-002-7 (EC Index-No.) 607-044-00-5	2	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
EDTA substance with a Community workplace exposure limit	(CAS-No.) 60-00-4 (EC-No.) 200-449-4	<0.5	Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT RE 2, H373

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. 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.

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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.

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 8: "Exposure controls/personal protection". 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. Protect

against frost.

Information on mixed storage : Keep out of the reach of children. Avoid contact of substance with water.

Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID, Potassium salt (5221-16-9)			
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ 8 H	
United Kingdom	WEL STEL (mg/m³)	20 mg/m³ 15 min	
(R)-2-(4-CHLORO-2-METHYL	(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID, POTASSIUM SALT (66423-05-0)		
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ 8 h	
United Kingdom	WEL STEL (mg/m³)	20 mg/m³ 15 min	
EDTA (60-00-4)			
EU	Local name	EDTA	
EU	Notes	(Year of adoption 2009)	
EU	Regulatory reference	SCOEL Recommendations	

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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.

Materials for protective clothing:

Nitrile rubber

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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 : Phenolic.

Odour threshold : No data available

pH : 7 (1% aq)

Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

Flash point : $> 100 \,^{\circ}\text{C}$ Auto-ignition temperature : $> 400 \,^{\circ}\text{C}$

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 : 1.1555

Solubility : Water: Miscible with water

Log Pow : 2.8 (MCPPp)

Viscosity, kinematic : No data available

Viscosity, dynamic : 4.42 mPa·s (40°C)

Viscosity, dynamic : 4.56 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

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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

T2 GREEN PRO	
LD50 oral rat	300 - 2000 mg/kg (MCPA)
LD50 oral	431 mg/kg (MCPPp)
LD50 dermal rat	> 2000 mg/kg (MCPA)
LD50 dermal	> 2000 mg/kg (MCPPp) - Rat
LC50 inhalation rat (mg/l)	> 5 mg/l/4h MCPA
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.16 mg/l/4h MCPPp

POTASSIUM 3,6-DICHLORO-O-ANISATE (10007-85-9)	
LD50 oral rat	1707 mg/kg Dicamba
LD50 dermal rabbit	> 2000 mg/kg Dicamba
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 9.6 mg/l/4h Dicamba

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)

pH: 7 (1% aq)

Serious eye damage/irritation : Causes serious eye damage.

pH: 7 (1% aq)

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)
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)

SECTION 12: Ecological information

12.1. Toxicity Ecology - general

: Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

T2 GREEN PRO	
LC50 96h fish	50 mg/l (MCPA)
LC50 96h fish	> 100 (MCPPp)
EC50 48h crustacea	> 190 mg/l (MCPA)
EC50 48h crustacea	> 100 (MCPPp)

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T2 GREEN PRO	
EC50 72h algae	> 320 mg/l selenastrum capricornutum ()MCPA
EC50 72h algae	16.2 mg/l MCPPp
NOEC (chronic)	50 mg/l Daphnia magna (MCPA)
NOEC chronic fish	15 mg/l Pimephales promelas (MCPA DMA)
NOEC chronic crustacea	> 100 mg/l Daphnia magna (MCPPp))

(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID, POTASSIUM SALT (66423-05-0)

Additional ecotoxicological information

14d ErC10 (Myriophyllum spicatum) 0.00106 mg/L 14d ErC50 (Myriophyllum spicatum) 0.0269 mg/L

POTASSIUM 3,6-DICHLORO-O-ANISATE (1000	07-85-9)
1.0=0.001.51.1	40-

LC50 96h fish	135 mg/l Dicamba
EC50 48h crustacea	110 mg/l Dicamba
EC50 72h algae	250 mg/l Dicamba

12.2. Persistence and degradability

T2 GREEN PRO	
Persistence and degradability	Readily biodegradable.
Biodegradation	DT50 : 6.3-8.2d. (mecoprop-P). DT50 : 2.1-8d (Dicamba). DT50 : 7-14d (MCPA).

(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID, POTASSIUM SALT (66423-05-0)

Persistence and degradability Readily biodegradable.

POTASSIUM 3,6-DICHLORO-O-ANISATE (10007-85-9)

Persistence and degradability Not readily biodegradable

12.3. Bioaccumulative potential

T2 GREEN PRO	
Log Pow	2.8 (MCPPp)
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

T2 GREEN PRO	
Surface tension	50.7 mN/m 20°C
Log Koc	Koc = 135-167 (mecoprop-P). Kfoc = 3.45-21.2, 1/n=0.72-0.93 (Dicamba). Koc=10-157(MCPA)

12.5. Results of PBT and vPvB assessment

T2 GREEN PRO

This substance/mixture does not meet the PBT 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				
3082	3082	3082		
14.2. UN proper shipping name	14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPA, Mecoprop-p)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPA, Mecoprop-p)	Environmentally hazardous substance, liquid, n.o.s. (MCPA, Mecoprop-p)		
Transport document description (ADR)				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPA, Mecoprop-p), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPA, Mecoprop-p), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (MCPA, Mecoprop-p), 9, III		
14.3. Transport hazard class(es)				
9	9	9		

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ADR	IMDG	IATA
	¥2	
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T4

(ADR)

Portable tank and bulk container special : TP1, TP29 provisions (ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

EAC code : •3Z

- Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L
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

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

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CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

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

Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after eye contact	Modified	
5.3	EAC code	Added	
7.2	Information on mixed storage	Added	
7.2	Special rules on packaging	Added	
9.1	Viscosity, dynamic	Added	
9.1	pH solution concentration	Added	
9.1	Auto-ignition temperature	Added	
9.1	Viscosity, dynamic	Modified	
9.1	Relative density	Modified	
9.1	pH	Modified	
11.1	LD50 oral	Modified	
11.1	LD50 oral rat	Modified	
11.1	LC50 inhalation rat (mg/l)	Modified	
11.1	LD50 dermal	Modified	
11.1	LD50 dermal rat	Modified	
11.1	ATE CLP (vapours)	Added	
11.1	ATE CLP (oral)	Added	
11.1	ATE CLP (dust,mist)	Added	
12.1	NOEC chronic fish	Added	
12.1	NOEC chronic crustacea	Added	
12.1	NOEC (chronic)	Added	
12.1	EC50 72h algae	Modified	
12.1	EC50 48h crustacea	Modified	
12.2	Persistence and degradability	Added	
14.1	UN-No. (ADN)	Added	

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	()	
14.1	UN-No. (ADR)	Added
14.1	UN-No. (IMDG)	Added
14.1	UN-No. (IATA)	Added
14.2	Proper Shipping Name (ADN)	Added
14.2	Proper Shipping Name (ADR)	Added
14.3	Danger labels (RID)	Added
14.3	Danger labels (ADR)	Added
14.3	Class (ADR)	Added
14.4	Packing group (ADN)	Added
14.4	Packing group (IATA)	Added
14.4	Packing group (IMDG)	Added
14.4	Packing group (ADR)	Added
14.6	Special provisions (ADN)	Added
14.6	Special packing provisions (IMDG)	Added
14.6	Packing instructions (IMDG)	Added
14.6	Transport category (ADR)	Added
14.6	Special provisions (ADR)	Added
14.6	Excepted quantities (ADR)	Added
14.6	Limited quantities (ADR)	Added
14.6	Hazard identification number (Kemler No.)	Added
14.6	Classification code (ADR)	Added
16	Other information	Removed

Full text of H- and EUH-statements:

T dir text of TI- and Eof I-statemen	nto.
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
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
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
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
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.

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