

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

1.1. Product identifier

CA Code (Nufarm)	: 2873
Product code	: NLI1553
Oracle Recipe Code (Nufarm)	: 600000253
Item codes	: IC2873
Product form	: Mixture
Product name	: 2,4-D / MCPA DMA 350/300 g a.i./L
Type (Nufarm)	: Master
Country (Nufarm)	: Master product

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

1.2.1. Relevant identified uses

Main use category	: Herbicide
Use of the substance/mixture	:

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Nufarm GmbH & Co KG
St.-Peter-Str. 25
Linz - Österreich
T +43/732/6918-3187 - F +43/732/6918-63187
Katharina.Krueger@nufarm.com

1.4. Emergency telephone number

Emergency number	: +43/732/6914-2466 (Produktionsstandort Linz/Österreich) +43/1/4064343 (VergiftungsInformationsZentrale)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.), Category 4	H332
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
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

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H410 - Very toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P338 - Remove contact lenses, if present and easy to do. Continue rinsing. P363 - Wash contaminated clothing before reuse. P501 - Dispose of contents/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

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	35.1	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	30.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4-DICHLOROPHENOL	(CAS-No.) 120-83-2 (EC-No.) 204-429-6 (EC Index-No.) 604-011-00-7	0.0 - 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Aquatic Chronic 2, H411
4-CHLORO-2-METHYLPHENOL	(CAS-No.) 1570-64-5 (EC-No.) 216-381-3 (REACH-no) 01-2119455846-26	0.0 - 0.1	Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Aquatic Acute 1, H400

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing.
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

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

Symptoms/effects	: Headache. Feeling of weakness. Abdominal pain, nausea. Gastrointestinal complaints. Salivation. Sweating. Coma. Cardiac disorders. Blurred vision. Convulsions. Circulatory collapse.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Sand. Foam. Carbon dioxide.
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Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Hydrogen chloride. nitrogen oxides (NOx) and chlorine.

5.3. Advice for firefighters

Protection during firefighting : Use personal protective equipment (PPE). Wear a self contained breathing apparatus.
Other information : Contain the spreading of extinguishing fluids (this product may be hazardous for the environment). Do not discharge into drains or the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear personal protective equipment. Refer to chapter 8.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information : Never return spills in original containers for possible later re-use.

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 : Wear personal protective equipment. Keep out of the reach of children. Avoid all eye and skin contact and do not breathe vapour and mist.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store at room temperature.
Storage temperature : > 0 °C
Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID, DIMETHYLAMINE SALT (2039-46-5)		
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ 8 h
United Kingdom	WEL STEL (mg/m ³)	20 mg/m ³ 15 min
(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)		
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ 8 H
United Kingdom	WEL STEL (mg/m ³)	20 mg/m ³ 15 min

Additional information : Country Specific

8.2. Exposure controls

Appropriate engineering controls:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Materials for protective clothing:

According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn. Keep away from food and drink. Wash clothing before re-using

Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent)

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Eye protection:

Safety glasses with side shields. Standard EN 166 - Personal eye-protection.

Skin and body protection:

EN 14605. According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn

Respiratory protection:

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

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
pH	: 8 - 10
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: $\approx 100\text{ }^{\circ}\text{C}$ @ 1013 hPa, aqueous solution
Flash point	: $> 100\text{ }^{\circ}\text{C}$
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Negligible vapour pressure at ambient conditions
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.18 - 1.19 g/cm ³ @ 20°C
Solubility	: Water: completely miscible
Log Pow	: -0.83 (2,4-D, 25°C, pH 7); -0.71 (MCPA, 25°C, pH 7)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions of use. No decomposition if stored normally.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

None.

10.5. Incompatible materials

Strong bases.

10.6. Hazardous decomposition products

Avoid temperature above 100 °C

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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

2,4-D / MCPA DMA 350/300 g a.i./L	
LD50 oral rat	1370 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> mg/kg
LC50 inhalation rat (mg/l)	> mg/l/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)	
LD50 oral rat	625 mg/kg
LD50 dermal rabbit	2115 mg/kg

2,4-DICHLOROPHENOL (120-83-2)	
LD50 oral	1276
LD50 dermal rat	>
LD50 dermal	>

4-CHLORO-2-METHYLPHENOL (1570-64-5)	
LD50 oral rat	2650 - 3195 mg/kg
LD50 dermal rat	2240 mg/kg
LC50 inhalation rat (mg/l)	0.9 mg/l/4h

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Dermal: Harmful in contact with skin.
Acute toxicity (inhalation)	: Inhalation: Harmful if inhaled.
Skin corrosion/irritation	: Not classified pH: 8 - 10
Additional information	: Causes skin irritation. rabbit
Serious eye damage/irritation	: Risk of serious damage to eyes pH: 8 - 10
Additional information	: rabbit
Respiratory or skin sensitisation	: May cause an allergic skin reaction. (Did not cause sensitisation)
Additional information	: Guinea pig
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Very toxic to aquatic life with long lasting effects.

2,4-D / MCPA DMA 350/300 g a.i./L	
LC50 96h fish	> 100 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 48h crustacea	> 100 mg/l <i>Daphnia</i> (water flea)
EC50 72h algae	≈ 90 mg/l
NOEC (chronic)	> mg/l
NOEC chronic fish	> mg/l

2,4-DICHLOROPHENOL (120-83-2)	
LC50 96h fish	>
EC50 other aquatic organisms 1	>

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4-CHLORO-2-METHYLPHENOL (1570-64-5)	
EC50 48h crustacea	> 0.56 mg/l
EC50 72h algae	14.81 mg/l Scenedesmus Subspicatus
ErC50 (other aquatic plants)	15.7 mg/l Lemna Minor; 7d

12.2. Persistence and degradability

2,4-D / MCPA DMA 350/300 g a.i./L	
Persistence and degradability	Readily biodegradable.
DT50	25 d (MCPA); 13 d (2,4-D) in water;
DT50 (Soil)	8-25 d (2,4-D); ~20 d (MCPA)

12.3. Bioaccumulative potential

2,4-D / MCPA DMA 350/300 g a.i./L	
Log Pow	-0.83 (2,4-D, 25°C, pH 7); -0.71 (MCPA, 25°C, pH 7)
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

2,4-D / MCPA DMA 350/300 g a.i./L	
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	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose as hazardous waste. Dispose of at authorized waste collection point. Do not remove as household garbage. Must follow special treatment according to local regulation.
Product/Packaging disposal recommendations	: Do not re-use empty containers. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
European List of Waste (LoW) code	: 02 01 08* - agrochemical waste containing dangerous substances

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

Special transport precautions : Not applicable

- 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

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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

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

None

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
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
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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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