



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Duplosan Super

Version 2.2(UK)

Issuing date: 2017/10/05

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name : **Duplosan Super**

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

Use : Herbicide

1.3. Details of the supplier of the safety data sheet

Nufarm UK Limited
Wyke Lane
Wyke
Bradford
West Yorkshire BD12 9EJ
United Kingdom
Telephone: +44 (0)1274 691234
Telefax: +44 (0)1274 691176
E-mail address: infouk@uk.nufarm.com

1.4. Emergency telephone number

+44 (0)1274 696603

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EG_1272/08 :	AcuteTox.4	H302 - Harmful if swallowed.
	SkinSens.1	H317 - May cause an allergic skin reaction.
	EyeDam.1	H318 - Causes serious eye damage.

2.2. Label elements

Pictogram:



GHS05



GHS07

Signal word: Danger

- H302 - Harmful if swallowed.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
- P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 - If skin irritation occurs: Get medical advice/ attention.
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.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aqueous solution of the dimethylammonium salt
Dichlorprop-P 310g/l, MCPA 160g/l & Mecoprop-P 130 g/l

3.2. Mixtures

Components:



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dichlorprop-P

CAS-No.: 15165-67-0
EINECS-No. / ELINCS No.: 403-980-1
REACH No.:
Concentration: 26.7 % (w/w)

Classification:

EG_1272/08 : AcuteTox.4 H302 - Harmful if swallowed.
SkinIrrit.2 H315 - Causes skin irritation.
EyeDam.1 H318 - Causes serious eye damage.
SkinSens.1 H317 - May cause an allergic skin reaction.

MCPA

CAS-No.: 94-74-6
EINECS-No. / ELINCS No.: 202-360-6
REACH No.:
Concentration: 13.8 % (w/w)

Classification:

EG_1272/08 : AcuteTox.4 H302 - Harmful if swallowed.
SkinIrrit.2 H315 - Causes skin irritation.
EyeDam.1 H318 - Causes serious eye damage.
AquaticAcute1 H400 - Very toxic to aquatic life.
AquaticChronic1 H410 - Very toxic to aquatic life with long lasting effects.

mecoprop-P

CAS-No.: 16484-77-8
EINECS-No. / ELINCS No.: 240-539-0
REACH No.: 01-2119447100-56
Concentration: 11.2 % (w/w)

Classification:

EG_1272/08 : AcuteTox.4 H302 - Harmful if swallowed.
EyeDam.1 H318 - Causes serious eye damage.
AquaticChronic2 H411 - Toxic to aquatic life with long lasting effects.

2,4-Dichlorophenol

CAS-No.: 120-83-2
EINECS-No. / ELINCS No.: 204-429-6
REACH No.: 01-2119513326-47
Concentration: 0.1 % (w/w)

Classification:

EG_1272/08 : AcuteTox.3 H311 - Toxic in contact with skin.
AcuteTox.4 H302 - Harmful if swallowed.
SkinCorr.1B H314 - Causes severe skin burns and eye damage.
AquaticChronic2 H411 - Toxic to aquatic life with long lasting effects.

4-chloro-o-cresol

CAS-No.: 1570-64-5
EINECS-No. / ELINCS No.: 216-381-3
REACH No.: 01-2119455846-26
Concentration: 0.1 % (w/w)

Classification:

EG_1272/08 : AcuteTox.3 H331 - Toxic if inhaled.
SkinCorr.1A H314 - Causes severe skin burns and eye damage.
AquaticAcute1 H400 - Very toxic to aquatic life.

dimethylamine



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CAS-No.: 124-40-3
EINECS-No. / ELINCS No.: 204-697-4
REACH No.: 01-2119475495-27
Concentration: 10% - 15% (w/w)

Classification:
EG_1272/08 : Flam.Gas1 H220 - Extremely flammable gas.
AcuteTox.4 H332 - Harmful if inhaled.
STOT_SE3 H335 - May cause respiratory irritation.
SkinIrrit.2 H315 - Causes skin irritation.
EyeDam.1 H318 - Causes serious eye damage.
Press.Gas - - -

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.

Inhalation : Move to fresh air. If symptoms persist, call a physician.

Ingestion : Induce vomiting if person is conscious. Rinse mouth. If conscious, drink plenty of water. If symptoms persist, call a physician.

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

Symptoms : No information available.

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

Treatment : Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Carbon dioxide (CO₂), Dry powder, Alcohol-resistant foam

Extinguishing media which shall not be used for safety reasons : High volume water jet



5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : In the event of fire (HCl, Cl₂, NO_x, CO) may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

Further Information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. (see Chapter 8)

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal.

Additional advice : Never return spills in original containers for re-use.

6.4. Reference to other sections

see Chapter 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice : Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place.



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Advice on common storage : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters
(EH40/2005 Workplace exposure limits)

Components	CAS-No.	National occupational exposure limits	Note
dichlorprop-P	15165-67-0		no classification available
MCPA	94-74-6		no classification available
mecoprop-P	16484-77-8		no classification available
2,4-Dichlorophenol	120-83-2		no classification available
4-chloro-o-cresol	1570-64-5		no classification available
dimethylamine	124-40-3	3.8 mg/m ³	Long-term exposure limit

8.2. Exposure controls

Personal protective equipment

Respiratory protection : No special protective equipment required.

Hand protection : PVC or nitrile-rubber gloves

Eye protection : Safety glasses, , or:, Goggles

Skin and body protection : lightweight protective clothing

Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

Protective measures : Avoid contact with skin, eyes and clothing. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance



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Physical state	: liquid
Form	: Soluble concentrate
Colour	: dark yellow
Odour	: amine-like
Flash point	: >100 °C
Ignition temperature	: 405 °C
Density	: 1.163 g/cm ³ at 20 °C
Water solubility	: completely soluble
pH	: 6.8 at 10 g/l (20 °C)
Partition coefficient: n-octanol/water	: log POW = -0.25 at 25 °C (pH 7), (dichlorprop-P) log POW = -0.71 at 25 °C (pH 7), (MCPA) log POW = 0.02 at 20 °C (pH 7), (MCPP-P)
Viscosity, dynamic	: 30.7 mPa.s at 20 °C

9.2. Other information

none

10. STABILITY AND REACTIVITY

10.1. Reactivity

no data available



10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

10.5. Incompatible materials to avoid

Strong acids and strong bases

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity : LD50 rat
Dose: 300 - 500 mg/kg
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 rat
Dose: > 2,000 mg/kg
Method: OECD Test Guideline 402

Acute inhalation toxicity : LC50 rat
Exposure time: 4 h
Dose: > 5.2 mg/l
Method: OECD Test Guideline 403

Skin irritation : rabbit
Classification: No skin irritation
Result: No skin irritation
Method: OECD Test Guideline 404

Eye irritation : rabbit
Result: Severe eye irritation
Method: OECD Test Guideline 405

Sensitisation : mouse



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Classification: May cause sensitization by skin contact.
Result: Causes sensitization.
Method: OECD Test Guideline 429

12. ECOLOGICAL INFORMATION

12.1. Toxicity

- Toxicity to bees : LD50 (oral) Apis mellifera (Honey bee)
Testing period: 48 h
Dose ($\mu\text{g}/\text{Species}$): > 100
- : LD50 (contact) Apis mellifera (Honey bee)
Testing period: 48 h
Dose ($\mu\text{g}/\text{Species}$): > 107.6
- Toxicity to fish : LC50 Oncorhynchus mykiss (Rainbow trout)
Dose: > 1,000 mg/l
Testing period: 96 h
- Toxicity to daphnia : EC50 Daphnia magna (Water flea)
Dose: > 825 mg/l
Testing period: 48 h
- Toxicity to algae : EC50 Chlorella fusca
Dose: 1,170 mg/l
Exposure time: 96 h
- EC50 Lemna gibba (Duckweed)
Dose: 7.5 mg/l
Exposure time: 7 d

12.2. Persistence and degradability

- Biodegradability : Readily biodegradable.
- Stability in soil : DT50: 26.1 d
(dichlorprop-P)
- DT50: 24 d
(MCPA)



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DT50: 8.2 d
(mecoprop-P)

12.3. Potential bioaccumulation

Bioaccumulation : Does not bioaccumulate.

12.4. Mobility in soil

Koc = 12.9 - 83.7L/kg; 1/n= 0.589 - 0.908 (dichlorprop-P)
Koc = 10 - 157 (MCPA)
Koc = 20 - 43 (pH 5.6 - 7.6), 135 - 167 (pH 4.3 - 4.4) [mecoprop-P]

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended :

Waste Code : 02 01 08 (agrochemical waste containing dangerous substances)

13.1. Waste treatment methods

Product : Dispose of product and packaging in accordance with the "Code of practice for using plant protection products". A DEFRA publication

Contaminated packaging : Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1. UN number



14.2. Proper shipping name

not applicable

14.3. Transport hazard class(es)

ADR/RID :

Not a dangerous substance as defined in the above regulations.

IMDG :

Not a dangerous substance as defined in the above regulations.

IATA-DGR :

Not a dangerous substance as defined in the above regulations.

14.4. Packaging group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

none

15. REGULATORY INFORMATION

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

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.

15.2. Chemical Safety Assessment

none



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16. OTHER INFORMATION

Print Date : 2017/10/06

The date format YYYY/MM/DD is used according to ISO 8601.
(Alterations are indicated in the left hand margin by: ||)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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