

DIOWEED 50

Preparation Date 19-Mar-2013

Revision date 23-Feb-2017

Revision Number: 2

1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the product

Product code HDG02

Product Description: DIOWEED 50

Synonyms Aqueous solution of dimethylammonium salts
500 g/l 2,4-D

Pure substance/preparation Preparation

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use Herbicide

1.3 Details of the Supplier of the Safety Data Sheet

Supplier UPL Europe Ltd
The Centre
Birchwood Park
Warrington
WA3 6YN Cheshire
UK
Tel. : +44 (0) 1925 819999
Fax : +44 (0) 1925 856075

E-mail address info.uk@uniphos.com

1.4 Emergency Telephone Number

Emergency telephone number (CARECHEM 24): +44 (0) 1235 239670

United Kingdom NHS no. 111

2. Hazards Identification

2.1 Classification of the mixture

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

Acute oral toxicity Category 4 - H302
Serious Eye Damage/Irritation Category 1 - H318

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

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



Signal Word

DANGER

Hazard Statements

H302 - Harmful if swallowed
H318 - Causes serious eye damage

Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/eye protection/face protection
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P501 - Dispose of contents/ container in accordance with national regulation

EU Specific Hazard Statements

EUH208 - Contains (2,4-D). May produce an allergic reaction
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

2.3 Other Hazards

No information available

3. Composition/information on Ingredients

3.2. MIXTURES

Chemical name	EC No	CAS-No	Weight %	Classification (Dir.67/548)	EU - GHS Substance Classification	REACH No.
2,4-D	202-361-1	94-75-7	40 - 50	-	Acute Tox. 4 (H302) STOT SE 3 (H335) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	no data available

For the full text of the H-Statements mentioned in this Section, see Section 16

4. First aid measures

4.1 Description of first-aid measures

General advice	Show this safety data sheet to the doctor in attendance
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes Consult a physician.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes If symptoms persist, call a physician
Ingestion	Rinse mouth Do NOT induce vomiting Seek immediate medical attention/advice
Inhalation	Move to fresh air If symptoms persist, call a physician
Protection of First-aiders	Use personal protective equipment Avoid contact with skin, eyes and clothing

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂)
Dry chemical
Water spray
alcohol-resistant foam

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Special Hazard Hydrogen chloride
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

5.3 Advice for Firefighters

This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

In the event of fire, wear self contained breathing apparatus

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas
Use personal protective equipment

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so
Prevent product from entering drains
Do not flush into surface water or sanitary sewer system

6.3 Methods and material for containment and cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
Sweep up and shovel into suitable containers for disposal

7. Handling and Storage

7.1 Precautions for Safe Handling

Handling

Wear personal protective equipment
Do not breathe vapours or spray mist
Keep out of reach of children

Hygiene Measures

Use only outdoors or in a well-ventilated area

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place
Keep in properly labelled containers
Keep away from direct sunlight
Store away from frost.
Keep away from heat and sources of ignition

7.3 Specific end uses

No information available.

8. Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limits Apply technical measures to comply with the occupational exposure limits

Chemical name	Eu	United Kingdom	France	Spain	Germany
2,4-D		STEL: 20 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	MAK: 1 mg/m ³ Ceiling / Peak: 8 mg/m ³ Skin TWA: 1 mg/m ³
Component	Italy	Portugal	Netherlands	Finland	Denmark
2,4-D 94-75-7 (40 - 50)		TWA: 10 mg/m ³		TWA: 10 mg/m ³ STEL: 20 mg/m ³	TWA: 1 mg/m ³ Skin
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
2,4-D	Skin STEL 4 mg/m ³ TWA: 1 mg/m ³	Skin STEL: 8 mg/m ³ TWA: 1 mg/m ³	TWA: 7 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 10 mg/m ³ STEL: 20 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure Controls

Engineering controls Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

- Eye protection** Safety glasses with side-shields.
- Skin protection** Wear protective clothing to prevent skin contact. .
- Hand protection** Nitrile rubber. Polyvinylchloride. Protective gloves.
- Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

Other protective equipment Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls Do not allow material to contaminate ground water system
Do not contaminate surface water
Local authorities should be advised if significant spillages cannot be contained

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Yellow
Physical state Liquid , Soluble concentrate (SL)
Odor slight amine

Property	VALUES	Remarks/ Method
pH	7.7	(1% aq)
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	> 200 °C	
Flammability (solid, gas)	Not applied	
Relative Density	1.173 g/cm ³	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	> 600 °C	
Decomposition temperature	No information available	
Viscosity	13.9 mPa.s	
Oxidizing properties	No information available	
Explosive properties	No information available	

9.2 OTHER INFORMATION

VOC Content No information available

10. Stability and Reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur. None under normal processing.

10.4 Conditions to avoid

Heat, flames and sparks

10.5 Incompatible Materials

Strong oxidizing agents
 Strong acids
 Strong bases

10.6 Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapours
 Hydrogen chloride
 Carbon oxides

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity

Local effects

Inhalation There is no data available for this product.
Eye contact There is no data available for this product.
Skin contact There is no data available for this product.
Ingestion There is no data available for this product.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,4-D 94-75-7	= 1.297 mg/kg (Rat)	> 4000 mg/kg (Rat)	> 5.01 mg/l

Chronic toxicity

Skin Corrosion/Irritation No skin irritation.

Eye damage/irritation Risk of serious damage to eyes.

Sensitization Did not cause sensitization. (guinea pig).

Carcinogenic effects No information available

Mutagenic effects No information available

Reproductive effects No information available

STOT - Single Exposure No information available.

STOT - Repeated Exposure No information available.

Target organ effects EYES. Respiratory System. skin.

12. Ecological Information

12.1 Toxicity

EC50/72h/algae = 177 mg/l
 EC50/48h/daphnia = > 200 mg/l
 LC50/fish/96 h = > 200 mg/l

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and Degradability

No information available

12.3 Bioaccumulative Potential

No information available

Chemical name	Log Pow
2,4-D	2.58 - 2.83

12.4 Mobility in Soil

12.5 Results of PBT and vPvB Assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)

12.6 Other Adverse Effects

No information available.

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
2,4-D	Group II Chemical	

13. Disposal Considerations

13.1 Waste Treatment Methods

Waste from Residues/Unused Products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
EWC waste disposal No	020108 - agrochemical waste containing dangerous substances.
OTHER INFORMATION	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. Transport Information

ADR/RID

14.1 UN-No Not regulated

14.2 Proper shipping name

14.3 Hazard class

14.4 Packing group

14.5 Environmental Hazard

14.6 Special Provisions

IMDG/IMO

14.1 UN-No Not regulated

14.2 Proper shipping name

14.3 Hazard class

14.4 Packing group

14.5 Environmental Hazard

14.6 Special Provisions

IATA/ICAO

14.1 UN-No Not regulated

14.2 Proper shipping name

14.3 Hazard class

14.4 Packing group

14.5 Environmental Hazard

14.6 Special Provisions

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Registration n° MAPP 13197

- To avoid risks to man and the environment, comply with the instructions for use

International Inventories

TSCA Complies

EINECS/ Complies

ELINCS

DSL/NDSL Complies

PICCS Complies

ENCS Complies

China Complies

AICS Complies

KECL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other Information**Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

Revision date 23-Feb-2017**Revision note** Sections updated: 2, Classification according to Regulation (EC) No. 1272/2008 [CLP]**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information contained is based on our knowledge of the product at the date of publishing.

It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended.

This sheet shall only be used and duplicated for prevention and Safety purposes.

For rates and use recommendations, refer to the information displayed on the packaging.

It is the responsibility of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

End of Safety Data Sheet