

Safety Data Sheet

Redlegor

Preparation Date 19-Mar-2013 Revision date 21-Feb-2017 Revision Number: 3

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

1.1 Identification of the product

Product code HDI01

Product Description: Redlegor

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 6VN Chesh

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

Serious Eye Damage/Irritation

Category 4 -H302

Category 1 - H318

Chronic aquatic toxicity

Category 2 - H411

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

H411 - Toxic to aquatic life with long lasting effects

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

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P280 - Wear protective gloves/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P273 - Avoid release to the environment

P501 - Dispose of contents/ container in accordance with national regulation

EU Specific Hazard Statements

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-DB (2,4-Dichloro-phenoxyb utyric acid)	202-366-9	94-82-6	20 - 30	-		no data available
MCPA (4-Chloro-o-tolyloxyaceti c acid)	202-360-6	94-74-6	1 - 5	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	no data available
Sodium hydroxide	215-185-5	1310-73-2	1 - 5	-	Skin Corr. 1A (H314) Eye Dam. 1 (H318) Met. Corr. 1 (H290)	01-2119457892- 27
Potassium hydroxide	215-181-3	1310-58-3	5 - 10	-	Acute Tox. 4 (H302) Skin Corr. 1A (H314)	01-2119487136- 33

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

Immediate medical attention is required

Eye contact Keep eye wide open while rinsing

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Immediate medical attention is required

Skin contactWash off immediately with soap and plenty of water removing all contaminated clothes and

shoes

Ingestion Do NOT induce vomiting

Never give anything by mouth to an unconscious person

Seek immediate medical attention/advice

Remove from exposure, lie down

Clean mouth with water and drink afterwards plenty of water afterwards

Call a physician or poison control center immediately

Inhalation Move to fresh air

Call a physician or poison control center immediately

If not breathing, give artificial respiration If breathing is difficult, give oxygen

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

Wear self-contained breathing apparatus and protective suit

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas Use personal protective equipment Keep people away from and upwind of spill/leak

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so Prevent product from entering drains

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

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
Sodium hydroxide		STEL: 2 mg/m ³	TWA: 2 mg/m ³	STEL: 2 mg/m ³	
Potassium hydroxide		STEL: 2 mg/m ³	STEL: 2 mg/m ³	STEL: 2 mg/m ³	
Component	Italy	Portugal	Netherlands	Finland	Denmark
Sodium hydroxide 1310-73-2 (1 - 5)		Ceiling: 2 mg/m ³		STEL: 2 mg/m ³ Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Potassium hydroxide 1310-58-3 (5 - 10)		Ceiling: 2 mg/m ³		STEL: 2 mg/m ³ Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
MCPA (4-Chloro-o-tolyloxyacetic acid)			STEL: 5 mg/m³ TWA: 1 mg/m³		
Sodium hydroxide	STEL 4 mg/m ³ TWA: 2 mg/m ³	STEL: 2 mg/m ³ TWA: 2 mg/m ³	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³
Potassium hydroxide	TWA: 2 mg/m ³	TWA: 2 mg/m ³	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 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 Long sleeved clothing. Chemical resistant apron. Boots. Impervious clothing. Impervious

gloves. Neoprene gloves.

Hand protection Protective gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators

In case of insufficient ventilation wear suitable respiratory equipment

Environmental exposure controls Do not allow material to contaminate ground water system

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearancedark brownPhysical stateLiquidOdorPhenolic

Property VALUES Remarks/ Method

pH 10

Melting point/freezing point

Boiling Point/Range

No information available
No information available

Flash Point > 100 °C
Flammability (solid, gas) Not applied
Relative Density 1.14 g/cm ³

Solubility in Other Solvents

Partition coefficient: n-octanol/waterNo information available
Autoignition temperature

No information available
No information available
No information available

Viscosity 6.8 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

(1% aq)

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

To avoid thermal decomposition, do not overheat

10.5 Incompatible Materials

Incompatible with strong acids and 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

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,4-DB	> 667 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.75 mg/l
(2,4-Dichloro-phenoxybutyric acid)			
94-82-6			
MCPA (4-Chloro-o-tolyloxyacetic		> 2 g/kg (Rabbit)	= 1370 mg/m ³ (Rat) 4 h
acid)			
94-74-6			
Sodium hydroxide		= 1350 mg/kg (Rabbit)	
1310-73-2			
Potassium hydroxide	= 214 mg/kg (Rat)		
1310-58-3			

Chronic toxicity

Skin Corrosion/Irritation No skin irritation.

Eye damage/irritation No eye irritation.

Sensitization May cause sensitization of susceptible persons.

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

Chemical name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
MCPA	EC50 72 h: = 19 mg/L	LC50 96 h: = 59 mg/L		EC50 48 h: = 180 mg/L
(4-Chloro-o-tolyloxyacetic	(Pseudokirchneriella	(Cyprinus carpio) LC50 96 h:		Static (Daphnia magna)
acid)	subcapitata) EC50 96 h: =	72.02 - 110.39 mg/L static		
	1.9 mg/L	(Oncorhynchus mykiss)		
	(Pseudokirchneriella	LC50 96 h: 79.74 - 117.99		
	subcapitata)	mg/L static (Lepomis		
		macrochirus)		
Sodium hydroxide		LC50 96 h: = 45.4 mg/L		
		static (Oncorhynchus		
		mykiss)		
Potassium hydroxide		LC50 96 h: = 80 mg/L static		_
_		(Gambusia affinis)		

12.2 Persistence and Degradability

Readily biodegradable

12.3 Bioaccumulative Potential

Does not bioaccumulate

Chemical name	Log Pow
MCPA (4-Chloro-o-tolyloxyacetic acid)	2.86
Potassium hydroxide	0.65 0.83

12.4 Mobility in Soil

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Not expected to adsorb on 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 Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances
2,4-DB (2,4-Dichloro-phenoxybutyric acid)	Group III 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.

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14. Transport Information

ADR/RID

14.1 UN-No UN3082

14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (2,4-DB (2,4-Dichloro-phenoxybutyric

acid) + MCPA (4-Chloro-o-tolyloxyacetic acid))

14.3 Hazard class 9
14.4 Packing group III

14.5 Environmental Hazard DANGEROUS FOR THE ENVIRONMENT

14.6 Special Provisions 274, 335, 375, 601

IMDG/IMO

14.1 UN-No UN3082

14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s (2,4-DB (2,4-Dichloro-phenoxybutyric

acid) + MCPA (4-Chloro-o-tolyloxyacetic acid))

14.3 Hazard class 9 **14.4 Packing group** III

14.5 Environmental HazardMarine Pollutant14.6 Special Provisions274, 335, 969

IATA/ICAO

14.1 UN-No UN3082

14.2 Proper shipping name Environmentally hazardous substance, liquid, n.o.s (2,4-DB (2,4-Dichloro-phenoxybutyric

acid) + MCPA (4-Chloro-o-tolyloxyacetic acid))

14.3 Hazard class 9 **14.4 Packing group** III

14.5 Environmental Hazard DANGEROUS FOR THE ENVIRONMENT

14.6 Special Provisions A97, A158, A197

15. Regulatory Information

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

Registration n° MAPP 15783

- 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.

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16. Other Information

Full text of H-Statements referred to under sections 2 and 3

H290 - May be corrosive to metals

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

Revision date 21-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 responsability 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
