

Troy 480

Preparation Date 31-Jan-2014

Revision date 12-Dec-2014

Revision Number: 1

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

1.1 Identification of the product

Product code	HCK04
Product Description:	Troy 480
Synonyms	Bentazone 480 g/L SL
Pure substance/preparation	Preparation

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

Recommended use	Herbicide
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1.3 Details of the Supplier of the Safety Data Sheet

Supplier	UPL Europe Ltd The Centre Birchwood Park Warrington WA3 6YN Cheshire UK
Telephone	+44 (0) 1925 819999
Telefax	+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
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United Kingdom	NHS no. 111
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2. Hazards Identification

2.1 Classification of the mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s) Xi - Irritant

R-code(s) Xi;R36 R43

For the full text of the R phrases mentioned in this Section, see Section 16

Classification according to regulation (EC) No 1272/2008 (CLP)

Serious Eye Damage/Irritation Category 2 - H319

Skin sensitization Category 1 - H317

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

2.2 Label elements

Labelling according to EU Directives 67/548/EEC or 1999/45/EC



Symbol(s)

Xi - Irritant

R -phrase(s)

R36 - Irritating to eyes

R43 - May cause sensitization by skin contact

S -phrase(s)

S 2 - Keep out of the reach of children

S13 - Keep away from food, drink and animal feedingstuffs

S20/21 - When using, do not eat, drink or smoke

S23 - Do not breathe spray

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37 - Wear suitable protective clothing and gloves

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets

Labelling according Regulation (EC) No 1272/2008 (CLP)



signal word

WARNING

hazard statements

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/ eye protection/ face protection

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

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

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P363 - Wash contaminated clothing before reuse

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

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.
Bentazone	246-585-8	25057-89-0	40 - 50	Xn;R22 Xi;R36 R43 R52/53	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	no data available
Surfactant	Not Listed	-	1 - 5	Xn;R22 Xi;R36/38 R53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Aquatic Chronic 4 (H413)	no data available
Salt forming agent	Listed	-	20 - 30	C;R35	Skin Corr. 1A (H314) Eye Dam. 1 (H318) Met. Corr. 1 (H290)	01-2119457892-27

For the full text of the R phrases mentioned in this Section, see Section 16

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	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes If eye irritation persists, consult a specialist
Skin contact	Wash off immediately with plenty of water If symptoms persist, call a physician
Ingestion	Rinse mouth with water Call a POISON CENTER or doctor/physician if exposed or you feel unwell
Inhalation	Move to fresh air Seek immediate medical attention/advice

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray Foam Dry powder Carbon dioxide (CO ₂)
Unsuitable extinguishing media	No information available.

5.2 Special hazards arising from the substance or mixture

Special Hazard	Carbon monoxide Carbon dioxide (CO ₂) Nitrogen oxides (NO _x)
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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
Do not breathe vapours or spray mist.
Use personal protective equipment
Avoid contact with skin, eyes and clothing

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so
Do not allow material to contaminate ground water system
Do not flush into surface water or sanitary sewer system

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

7. Handling and Storage

7.1 Precautions for Safe Handling

Handling

Provide adequate ventilation
Ensure that eyewash stations and safety showers are close to the workstation location

Hygiene Measures

Do not eat, drink or smoke when using this product

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place

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
Salt forming agent		STEL: 2 mg/m ³	TWA: 2 mg/m ³	STEL: 2 mg/m ³	
Component	Italy	Portugal	Netherlands	Finland	Denmark
Salt forming agent (20 - 30)		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
Salt forming agent	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

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.

Hand protection

Protective gloves.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

Environmental exposure controls No information available.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

appearance	brown	
Physical state	liquid	
Odor	Organic	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	7	(1% solution)
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
flash point	> 80 °C	
flammability (solid, gas)	Not Applicable	
Relative Density	1.2	
Water solubility	Miscible with water	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
decomposition temperature	No information available	
viscosity	6-8E-3 mPas mPas	
Oxidizing properties	Non oxidizing	
Explosive properties	No information available	

9.2 OTHER INFORMATION

VOC Content No information available

10. Stability and Reactivity

10.1 Reactivity

None under normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition

10.5 Incompatible Materials

Strong bases
Strong acids
Strong oxidizing agents

10.6 Hazardous Decomposition Products

None under normal use

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity**Local effects****Inhalation**

There is no data available for this product.

Eye contact

Irritating to eyes.

Skin contact

No skin irritation.

Ingestion

There is no data available for this product.

LD50 Oral

> 5000 mg/kg

LD50 Dermal

> 4000 mg/kg

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bentazone 25057-89-0	= 1400 - 1800 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 5.10 mg/l
Anti-freezing agent	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	
Salt forming agent		= 1350 mg/kg (Rabbit)	

Chronic toxicity**Skin Corrosion/Irritation**

No information available.

sensitization

Skin Sensitization. (Bentazone).

Carcinogenic effects

There are no known carcinogenic chemicals in this product

Mutagenic effects

No information available

Reproductive effects

NO (Bentazone)

STOT - Single Exposure

No information available.

STOT - Repeated Exposure

No information available.

12. Ecological Information

12.1 Toxicity

EC50/72h/algae = >109 mg/l

EC50/48h/daphnia = > 248 mg/l

LC50/fish/96 h = >250 mg/l

12.2 Persistence and Degradability

NOT READILY BIODEGRADABLE (Bentazone)

12.3 Bioaccumulative Potential

Does not bioaccumulate (Bentazone)

12.4 Mobility in Soil

No information available.

12.5 Results of PBT and vPvB Assessment

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

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other Adverse Effects

No information available.

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.

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 12341

- 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 -

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 R-phrases referred to under sections 2 and 3**

R43 - May cause sensitization by skin contact

R36 - Irritating to eyes

R22 - Harmful if swallowed

R35 - Causes severe burns

R53 - May cause long-term adverse effects in the aquatic environment

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/38 - Irritating to eyes and skin

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

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

Revision date 12-Dec-2014

Revision note Not applicable

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