



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Tropotox

Version 4 (UK)

Issuing date: 2011/01/13

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

1.1. Product identifier

Trade name : **Tropotox**

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

EEC/99/45 :	Xn	R22 - Harmful if swallowed.
	Xi	R38 - Irritating to skin.
	Xi	R41 - Risk of serious damage to eyes.
	N	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

according directive 1999/45/EG

Pictogram:



Xn



N

- R22 - Harmful if swallowed.
 R38 - Irritating to skin.
 R41 - Risk of serious damage to eyes.
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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.
 S24/25 - Avoid contact with skin and eyes.
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S37/39 - Wear suitable gloves and eye/face protection.
 S46 - If swallowed, seek medical advice immediately and show this container or label.
 S57 - Use appropriate container to avoid environmental contamination.
 S35 - This material and its container must be disposed of in a safe way.

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 sodium salt
 Contains MCPB 400g/l.

3.2. Mixtures

Components	CAS-No.	EINECS-No. ELINCS No.	REACH No.	Symbol(s) R-phrase(s)	Concentration (w/w)
MCPB-Na	6062-26-6	227-989-3		Xn, N R22, R50/53	38.1 %

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.
 If eye irritation persists, consult a specialist.



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- Skin contact : Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
- Inhalation : Remove casualty to fresh air. If symptoms persist, call a physician.
- Ingestion : Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

- Hazards : No information available.

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

- Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Carbon dioxide (CO₂), 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 fire fighting : In the event of fire (HCl, Cl₂, CO) may be formed.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : 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

Use 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 at room temperature in the original container.

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

Storage stability

Storage temperature : > 0 °C

7.3. Specific end uses

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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8.1. Control parameters

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

Components	CAS-No.	National occupational exposure limits	Note
MCPB-Na	6062-26-6		no classification available

8.2. Exposure controls

Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection : PVC or nitrile-rubber gloves
- Eye protection : Safety glasses, , or:, Goggles
- Skin and body protection : protective suit
- 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

- Physical state : liquid
- Form : Soluble concentrate
- Colour : dark brown
- Odour : phenol-like

Melting point/range : no data available

Boiling point/boiling range : ca.100 °C
at 1,013 hPa
Aqueous solution

Flash point : does not flash



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Ignition temperature	: no data available
Vapour pressure	: Active ingredient is an organic salt. Vapour pressure is negligibly low.
Density	: 1.14 g/cm ³ at 20 °C
Water solubility	: completely miscible
pH	: 9.6 at (20 °C)
Partition coefficient: n-octanol/water	: log POW = 1.32 (pH 7), (MCPB)
Dissociation constant	: no data available
Viscosity, dynamic	: 52 mPa.s

9.2. Other information

none

10. STABILITY AND REACTIVITY

10.1. Reactivity

no data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

no data available

10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

10.5. Incompatible materials to avoid



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Strong acids and oxidizing agents

10.6. Hazardous decomposition products

no data available

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity : LD50 rat
Dose: > 500 mg/kg

Acute dermal toxicity : LD50 rat
Dose: > 2,000 mg/kg
Test substance: (MCPB)

Acute inhalation toxicity : Remarks: not applicable

Skin irritation : rabbit
Result: irritating

Eye irritation : rabbit
Result: Severe eye irritation

rabbit
Result: Severe eye irritation

Sensitisation : Guinea-pig
Result: Did not cause sensitization on laboratory animals.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

: LD50 Apis mellifera (Honey bee)
Test substance: (MCPB)
Value (µg/Species): 81



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Toxicity to fish : LC50 *Oncorhynchus mykiss* (Rainbow trout)
Dose: 4.3 mg/l
Testing period: 96 h
Test substance: (MCPB Na)

LC50 *Lepomis macrochirus* (Bluegill sunfish)
Dose: 14 mg/l
Test substance: (MCPB Na)

Toxicity to daphnia : EC50 *Daphnia magna* (Water flea)
Dose: 55 mg/l
Testing period: 48 h
Test substance: (MCPB Na)

Toxicity to algae : EbC50 *Navicula pelliculosa*
Dose: 1.5 mg/l
Exposure time: 72 h
Test substance: (MCPB Na)

EbC50 *Lemna gibba* (Duckweed)
Dose: 37 mg/l
Exposure time: 17 d
Test substance: (MCPB Na)

12.2. Persistence and degradability

Stability in soil : DT50: 6.8 d
(MCPB)

12.3. Potential bioaccumulation

Bioaccumulation : No bioaccumulation.

12.4. Mobility in soil

Koc = 86 - 130; 1/n= 0.740 - 0.898 (MCPB, pH<7)
Koc = 31 - 48; 1/n= 0.898 - 0.995 (MCPB, pH>7)

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

none



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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 Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.

Contaminated packaging : Do not re-use empty containers. 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



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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

16. OTHER INFORMATION

Print Date : 2011/01/13

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

Full text of R-phrases referred to under sections 2 and 3

- R22 - Harmful if swallowed.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.