



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Tropotox**

Version 3 (Ireland)

Issuing date: 2013/01/25

### 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.
EG_1272/08 :	AcuteTox.4	H302 - Harmful if swallowed.
	SkinIrrit.2	H315 - Causes skin irritation.
	EyeDam.1	H318 - Causes serious eye damage.
	AquaticChronic2	H411 - Toxic to aquatic life with long lasting effects.

#### 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.

REGULATION (EC) No 1272/2008

Pictogram:



GHS05



GHS07



GHS09

- H302 - Harmful if swallowed.  
 H315 - Causes skin irritation.  
 H318 - Causes serious eye damage.  
 H411 - Toxic to aquatic life with long lasting effects.
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P270 - Do not eat, drink or smoke when using this product.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
 P330 - Rinse mouth.  
 P273 - Avoid release to the environment.  
 P391 - Collect spillage.



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### 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:

#### MCPB-Na

CAS-No.: 6062-26-6  
EINECS-No. / ELINCS No.: 227-989-3  
REACH No.:  
Concentration: 38.1 % (w/w)

#### Classification:

EG\_1272/08 : AcuteTox.4 H302 - Harmful if swallowed.  
EEC/67/548 : Xn R22 - Harmful if swallowed.

## 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.
- 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



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Hazards : 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, Dry powder, Carbon dioxide (CO<sub>2</sub>), 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, Cl<sub>2</sub>, 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

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 use(s)

none

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Components with workplace control parameters  
(according to S.I. No. 619 of 2001)

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

#### 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



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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

Ignition temperature : no data available

Vapour pressure : Active ingredient is an organic salt. Vapour pressure is negligibly low.

Density : 1.14 g/cm<sup>3</sup>  
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

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



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Test substance: (MCPB)

Acute inhalation toxicity : Remarks: not applicable

Skin irritation : rabbit  
Result: irritating

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 ( $\mu\text{g}/\text{Species}$ ): 81

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)





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

### 12.2. Persistence and degradability

Biodegradability : no data available

Stability in soil : DT50: 6.8 d  
(MCPB)

### 12.3. Potential bioaccumulation

Bioaccumulation : Does not bioaccumulate.

### 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

## 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 in accordance with local regulations.

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.



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### 15.2. Chemical Safety Assessment

none

### 16. OTHER INFORMATION

Print Date : 2014/05/09

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

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