



SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

Isomec

Version 4 (UK)

Issue date 10/30/2009

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

Product information

Trade name : **Isomec**

Usage : herbicide

Company : Nufarm UK Limited
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2. HAZARDS IDENTIFICATION

Harmful if swallowed.
Risk of serious damage to eyes.
Irritating to skin.
Toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Soluble liquid
Mecoprop-P 600g/l as the potassium salt

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
mecoprop-P	16484-77-8	240-539-0	Xn, N	R22, R41, R51/53	48.2 %
potassium hydroxide	1310-58-3	215-181-3	C	R22, R35	27.7 %

4. FIRST AID MEASURES

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.

Inhalation : Move to fresh air. If symptoms persist, call a physician.

Ingestion : Do NOT induce vomiting. Rinse mouth. If conscious, drink



plenty of water. If symptoms persist, call a physician.

Notes to physician

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Specific hazards during fire fighting : In the event of fire (HCl,Cl₂,CO) may be formed.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
- Suitable extinguishing media : Water spray, Carbon dioxide (CO₂), Dry powder, Alcohol-resistant foam
- Extinguishing media which shall not be used for safety reasons : High volume water jet
- Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear personal protective equipment. (see Chapter 8)
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- 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.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Wear personal protective equipment.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.

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



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

- Respiratory protection : No special protective equipment required.
- Hand protection : PVC or nitrile-rubber gloves
- Eye protection : Safety glasses, or, Goggles
- Skin and body protection : lightweight protective clothing
- 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

Appearance

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

Other data

- Start of crystallisation : -20 °C
- Flash point : > 100 °C
- Autoignition temperature : 460 °C
- Vapour pressure : 2.3E+00 Pa
(mecoprop-P)
- Density : 1.24 g/cm³
at 20 °C
- Water solubility : completely soluble



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pH : 8 - 10

Partition coefficient: n-octanol/water : log POW = 0.02
at 20 °C
(pH 7), (mecoprop-P)

log POW = -0.18
at 20 °C
(pH 9), (mecoprop-P)

Viscosity, dynamic : ca.33 mPa.s
at 20 °C

10. STABILITY AND REACTIVITY

Thermal decomposition : No decomposition if stored and applied as directed.

Conditions to avoid : No dangerous reaction known under conditions of normal use.

Materials to avoid : Incompatible with acids.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: 500 - 2,000 mg/kg

Acute dermal toxicity : LD50 rat
Dose: > 4,000 mg/kg

Acute inhalation toxicity : LC50 rat
Exposure time: 4 h
Dose: > 5.4 mg/l

Skin irritation : Result: irritating

Eye irritation : rabbit
Result: Severe eye irritation
Remarks: Risk of serious damage to eyes.



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Sensitisation : Result: Did not cause sensitization.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50
Dose: > 100 mg/l
Testing period: 96 h
Test substance: (mecoprop-P)

Toxicity to daphnia : LC50
Dose: > 91 mg/l
Testing period: 48 h
Test substance: (mecoprop-P)

Toxicity to algae : EC50 Toxicity to algae
Dose: 16.2 mg/l
Exposure time: 72 h
Test substance: (mecoprop-P)

EC50 Lemna gibba (Duckweed)
Dose: 1.6 mg/l

13. DISPOSAL CONSIDERATIONS

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Do not re-use empty containers. Dispose empty and triple rinsed container within a local disposing system according to EC directive 94/62/EC

According to European Directive 2000/532/EC as amended :

Waste Key Number : 02 01 08 (agrochemical waste containing dangerous substances)

14. TRANSPORT INFORMATION

UN-Number : **UN 3082**



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Description of the goods : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*(mecoprop-P)

ADR/RID

Class : 9
Packaging group : III

IMDG

Class : 9
Packaging group : III
Marine pollutant : Y

IATA-DGR

Class : 9
Packaging group : III

15. REGULATORY INFORMATION

Symbol(s) : Xn Harmful
N Dangerous for the environment

R-phrase(s) : 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-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection.
S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate container to avoid environmental contamination.

Other regulations : The product is classified and labelled in accordance with EC



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directives or respective national laws.

16. OTHER INFORMATION

Print Date : 30/10/2009

(Alterations are indicated in the left hand margin by: ||)

Full text of any R phrases referred to under heading 3:

- R22 - Harmful if swallowed.
- R41 - Risk of serious damage to eyes.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R22 - Harmful if swallowed.
- R35 - Causes severe burns.

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