



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

### Product information

Trade name : **DUPLOSAN KV**

Usage : herbicide

Company : 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 : infouk@uk.nufarm.com

Emergency telephone : **+44(0)1274 696603**

## 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,Cl<sub>2</sub>,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 (CO<sub>2</sub>), 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/cm<sup>3</sup>  
at 20 °C
- Water solubility : completely soluble



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.



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**



**SAFETY DATA SHEET**  
according to regulation (EC) no 1907/2006

**DUPLOSAN KV**

Version 4 (UK)

Issue date 10/30/2009

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



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.

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.