



## SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

**Atom**

Version 1 (UK)

Issue date 08/05/2010

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

#### Product information

Trade name : **Atom**

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.  
May cause sensitization by skin contact  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : suspension concentrate (SC)  
Mecoprop-P (500 g/l), Diflufenican (33.3 g/l)

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
Mecoprop-P K	66423-05-0		Xn, N	R22, R41, R51/53	48.2 %
Diflufenican	83164-33-4			R52/53	2.6 %
4-chloro-o-cresol	1570-64-5	216-381-3	T, C, N	R23, R35, R50	0.1 %

### 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 : Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Inhalation : Move out of dangerous area. Call for a physician.

Ingestion : Do NOT induce vomiting. Clean mouth with water and drink



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afterwards plenty of water. Call a physician immediately.

**Notes to physician**

Treatment : Treat symptomatically. If ingested, irrigate the stomach using activated charcoal in addition. As the elimination occurs via the kidneys a dialyse is appropriate.

**5. FIRE-FIGHTING MEASURES**

- Specific hazards during fire fighting : In the event of fire (HCl,Cl<sub>2</sub>,NO<sub>x</sub>,CO<sub>x</sub>,HF) 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 : Store in original container. Keep containers tightly closed in a cool, well-ventilated place.



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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  
: < 30 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

Respiratory protection : Breathing apparatus needed only when aerosol or mist is formed. Respirator with combination filter for vapour/particulate (EN 141).

Hand protection : Impervious gloves

Eye protection : Tightly fitting safety goggles

Skin and body protection : impervious 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 : suspension concentrate (SC)  
Colour : beige  
Odour : very faint

### Other data

Melting point/range : no data available

Boiling point/boiling range : 100 °C

Flash point : > 100 °C

Density : 1.245 g/cm<sup>3</sup>



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Water solubility : partly miscible

pH : 7.9  
at 10 g/l ( 23 °C)

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

log POW = 4.2  
  
(Diflufenican)

Viscosity, dynamic : 44 mPa.s

## 10. STABILITY AND REACTIVITY

Conditions to avoid : No decomposition if stored and applied as directed.

Materials to avoid : Strong acids and strong bases

## 11. TOXICOLOGICAL INFORMATION

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

Acute dermal toxicity : LD50 rat  
Dose: > 2,000 mg/kg

Skin irritation : rabbit  
Result: No skin irritation

Eye irritation : rabbit  
Result: Irritating to eyes.

Sensitisation : Buehler Test  
Result: Causes sensitization.



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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity effects

Toxicity to fish : LC50 *Oncorhynchus mykiss* (Rainbow trout)  
Dose: > 80 mg/l  
Testing period: 96 h

Toxicity to daphnia : EC50 *Daphnia*  
Dose: > 80 mg/l  
Testing period: 48 h

Toxicity to algae : IC50 Toxicity to algae  
Dose: 0.31 mg/l  
Exposure time: 96 h

### 13. DISPOSAL CONSIDERATIONS

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 dispose with household waste. Do not re-use empty containers. Dispose at licensed waste disposal site capable of accepting pesticides in compliance with applicable regulations. 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 : **3082**

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

#### ADR/RID

Class : 9



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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.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitization by skin contact.  
R50/53 Very 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.  
S35 This material and its container must be disposed of in a safe way.  
S37 Wear suitable gloves.  
S39 Wear eye/face protection.  
S57 Use appropriate container to avoid environmental contamination.

Further information : Handle in accordance with good industrial hygiene and safety practice.

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.



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### 16. OTHER INFORMATION

Print Date : 05/08/2010

(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.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R23 - Toxic by inhalation.
- R35 - Causes severe burns.
- R50 - Very toxic to aquatic organisms.

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