



# SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

## **Binder**

Version 2 (UK)

Issue date 11/03/2009

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

#### Product information

Trade name : **Binder**

Usage : adjuvant

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

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Aqueous surfactant solution.

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
Alcohols, ethoxylated	68131-39-5		N, Xi	R41, R51/53	15% - 30%
Tallowalkylamineethoxylate	61791-26-2	500-153-8	Xn, N	R22, R41, R51/53	1% - 5%

### 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 : Store in original container. 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
- Colour : light yellow
- Odour : odourless

### Other data

- Flash point : > 200 °C
- Vapour pressure : <1E-02 Pa
- pH : 7 - 9
- Partition coefficient: n-octanol/water : log POW = 3

## 10. STABILITY AND REACTIVITY

- Conditions to avoid : No dangerous reaction known under conditions of normal use.
- Materials to avoid : Strong acids and strong bases



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## 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50 rat  
Dose: > 2,000 mg/kg
- Acute dermal toxicity : LD50 rat  
Dose: > 2,000 mg/kg
- Acute inhalation toxicity : LC50 rat  
Dose: > 5 mg/l
- Skin irritation : Result: No skin irritation
- Eye irritation : Result: Severe eye irritation
- Sensitisation : Result: Did not cause sensitization.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

- Toxicity to fish : LC50  
Dose: 10 mg/l
- Toxicity to daphnia : LC50  
Dose: 10 mg/l
- Toxicity to algae : LC50  
Dose: 10 mg/l

## 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



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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 :

### **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.

## 15. REGULATORY INFORMATION

Labelling according to EC

Directives : EEC/99/45

Symbol(s) : Xi Irritant

R-phrase(s) : R41 Risk of serious damage to eyes.  
R52/53 Harmful 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.

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 : 03/11/2009

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

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

- 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.
- R41 - Risk of serious damage to eyes.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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