



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Rattler**

Version 1 (UK)

Issuing date: 2014/03/12

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

#### 1.1. Product identifier

Trade name : **Rattler**

#### 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 :	Xi N	R41 - Risk of serious damage to eyes. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
EG_1272/08 :	EyeDam.1 AquaticChronic2	H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

according directive 1999/45/EG

Pictogram:



Xi



N

- 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.  
 S25 - Avoid contact with eyes.  
 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.  
 S39 - Wear eye/face protection.  
 S57 - Use appropriate container to avoid environmental contamination.

REGULATION (EC) No 1272/2008

Pictogram:



GHS05



GHS09

Signal word: Danger

- H318 - Causes serious eye damage.  
 H411 - Toxic to aquatic life with long lasting effects.  
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTER or doctor/ physician.  
 P273 - Avoid release to the environment.  
 P501 - Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non hazardous waste.

**2.3. Other hazards**



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This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Soluble liquid  
540 g/L Glyphosate

### 3.2. Mixtures

#### Components:

##### Glyphosate IPA salt

CAS-No.: 38641-94-0  
EINECS-No. / ELINCS No.: 254-056-8  
REACH No.:  
Concentration: 30.8 % (w/w)

##### Classification:

EG\_1272/08 : AquaticChronic2 H411 - Toxic to aquatic life with long lasting effects.  
EEC/67/548 : N R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### Glyphosate K salt

CAS-No.: 39600-42-5  
EINECS-No. / ELINCS No.:  
REACH No.:  
Concentration: 23.0 % (w/w)

##### Classification:

EG\_1272/08 : AquaticChronic2 H411 - Toxic to aquatic life with long lasting effects.  
EEC/67/548 : N R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### Blend of alkylpolyglucoside and Polyetoxylated N-tallow alkyltrimethylenedi-amine

CAS-No.:  
EINECS-No. / ELINCS No.:  
REACH No.:  
Concentration: 10% - 18% (w/w)

##### Classification:

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.  
EEC/67/548 : 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.



## 4. FIRST AID MEASURES

### 4.1. Description of 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. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. If symptoms persist, call a physician.
- Inhalation : Move the victim to fresh air. If symptoms persist, call a physician.
- Ingestion : Do NOT induce vomiting. If symptoms persist, call a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : no data 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, Dry sand
- 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>, NO<sub>x</sub>, CO) may be formed.

### 5.3. Advice for firefighters

- Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary. Use personal protective equipment.



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 contaminate water. 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). Shovel into suitable container 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 : Avoid contact with skin and eyes. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Protect from frost. Wear personal protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Protect from frost. Keep tightly closed in a dry and cool place.

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

### 7.3. Specific end use(s)

none



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with workplace control parameters  
(EH40/2005 Workplace exposure limits)

Components	CAS-No.	National occupational exposure limits	Note
Glyphosate IPA salt	38641-94-0		no classification available, not listed in EH40/2005
Glyphosate K salt	39600-42-5		no classification available, not listed in EH40/2005
Blend of alkylpolyglucoside and Polyetoxylated N-tallow alkyltrimethylenedi-amine			no classification available

### 8.2. Exposure controls

#### 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 : When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. Remove and wash contaminated clothing and gloves, including the inside, before re-use. General industrial hygiene practice. Avoid contact with skin, eyes and clothing.
- Protective measures : Avoid contact with the skin and the eyes. Keep working clothes separately.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Appearance

- Form : liquid
- Colour : light brown
- Odour : woody

- Flash point : >100 °C



Auto-ignition temperature	:	>400 °C
Density	:	1.3038 g/cm <sup>3</sup>
pH	:	5.4
Viscosity, dynamic	:	396.1 mPa.s at 20 °C
Surface tension	:	36.6 mN/m at 20 °C

## 9.2. Other information

none

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

no data available, not applicable

### 10.2. Chemical stability

No decomposition if stored and applied as directed.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight., No dangerous reaction known under conditions of normal use.

### 10.5. Incompatible materials to avoid

Strong acids and strong bases

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.



## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute oral toxicity	:	LD50 Dose: > 2,000 mg/kg Test substance: (Glyphosate)
Acute dermal toxicity	:	LD50 Dose: > 2,000 mg/kg Test substance: (Glyphosate)
Acute inhalation toxicity	:	LC50 Exposure time: 4 h Dose: > 5 mg/l Test substance: (Glyphosate)
Skin irritation	:	Result: No skin irritation Test substance: (Glyphosate)
Eye irritation	:	Result: Mild eye irritation Test substance: (Glyphosate)
Sensitisation	:	Result: Not sensitizing to skin. Test substance: (Glyphosate)

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Toxicity to birds	:	LD50 Toxicity to birds Dose: > 2,000 mg/kg Test substance: (Glyphosate)
	:	LD50 (oral) Apis mellifera (Honey bee) Test substance: (Glyphosate) Dose ( $\mu$ g/Species): 100
	:	LD50 (contact) Apis mellifera (Honey bee)





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- Dose: > 100 mg/kg  
Test substance: (Glyphosate)
- : LC50 Eisenia fetida (earthworms)  
Dose: > 480 mg/kg  
Test substance: (Glyphosate)
- Toxicity to fish : LC50 Toxicity to fish  
Dose: 38 mg/l  
Test substance: (Glyphosate)
- Toxicity to daphnia : EC50 Daphnia  
Dose: 40 mg/l  
Test substance: (Glyphosate)
- Toxicity to algae : EC50 Toxicity to algae  
Dose: 0.64 mg/l  
Exposure time: 168 h  
Test substance: (Glyphosate)

### 12.2. Persistence and degradability

- Biodegradability : Not readily biodegradable.
- Stability in soil : DT50: 4 - 180 d  
(Glyphosate)
- Stability in water : DT50: 1 - 4 d  
(Glyphosate)

### 12.3. Potential bioaccumulation

- Bioaccumulation : Does not bioaccumulate.

### 12.4. Mobility in soil

Koc = 884 - 60'000 (Glyphosate)

### 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



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### 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 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 re-use empty containers. Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### 14.1. UN number

UN3082

#### 14.2. Proper shipping name

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*(Glyphosate, Tallow propylene diamine ethoxylate)

#### 14.3. Transport hazard class(es)

ADR/RID :  
Class : 9

IMDG :  
Class : 9

IATA-DGR :  
Class : 9

#### 14.4. Packaging group

ADR/RID : III

IMDG : III



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IATA-DGR : III

### 14.5. Environmental hazards

**IMDG**

Marine Pollutant : Y

### 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.

### 15.2. Chemical Safety Assessment

none

## 16. OTHER INFORMATION

Print Date : 2014/03/12

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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