



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

**Xtreme**  
Version 2 (Georgia)

Issuing date: 2015/04/08

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name : **Xtreme**

### 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 GmbH & Co KG  
St.-Peter-Str. 25  
A-4021 Linz  
Austria  
Telephone: +43/732/6918-3187  
Telefax: +43/732/6918-63187  
E-mail address: Katharina.Krueger@at.nufarm.com

### 1.4. Emergency telephone number

+43/732/6914-2466 (Linz/Austria production site)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

EG\_1272/08 : AquaticChronic3 H412 - Harmful to aquatic life with long lasting effects.  
EEC/99/45 : - R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 2.2. Label elements

REGULATION (EC) No 1272/2008

Pictogram: none

Signal word: none

H412 - Harmful to aquatic life with long lasting effects.

P273 - Avoid release to the environment.



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P501 - Dispose of contents/ container to an approved waste disposal plant.

### 2.3. Other hazards

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

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Aqueous solution of the isopropylammonium salt, Aqueous solution of the potassium salt  
Glyphosate 540g/L

### 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: 22,9 % (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.

#### Alcohols, C10-16, ethoxylated, sulfates, ammonium salts

CAS-No.: 67762-19-0  
EINECS-No. / ELINCS No.: 500-172-1  
REACH No.:  
Concentration: 1,0% - 10,0% (w/w)

#### Classification:

EG\_1272/08 : SkinIrrit.2 H315 - Causes skin irritation.  
EyeDam.1 H318 - Causes serious eye damage.  
EEC/67/548 : Xi R38 - Irritating to skin.  
Xi R41 - Risk of serious damage to eyes.



## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water.
- Inhalation : Move to fresh air.
- Ingestion : Rinse mouth. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

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

- Symptoms : No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : Treat according to symptoms (decontamination, vital functions).

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Sand, Foam, Carbon dioxide (CO<sub>2</sub>)
- 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 (NO<sub>x</sub>, CO<sub>x</sub>, HCN) may be formed., In the event of fire (SO<sub>x</sub>) may be formed., In the event of fire (P2O<sub>5</sub>) may be formed.

### 5.3. Advice for firefighters

- Special protective : Use personal protective equipment. Wear self contained



equipment for firefighters

breathing apparatus for fire fighting if necessary.

Further Information

: Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 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 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). Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Additional advice : Never return spills in original containers for re-use.

### 6.4. Reference to other sections

see Chapter 13

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Safe handling advice : Wear personal protective equipment. Keep out of the reach of children.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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

Requirements for storage areas and containers : Store in original container.

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

#### Storage stability

Storage temperature : > -5 °C



### 7.3. Specific end use(s)

none

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with workplace control parameters  
no data available

### 8.2. Exposure controls

#### Personal protective equipment

- Respiratory protection : Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).
- Hand protection : Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
- Eye protection : Safety glasses with side-shields (frame goggles) (e.g. EN 166)
- Skin and body protection : Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
- 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 : The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.  
Avoid contact with skin, eyes and clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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



**Appearance**

Physical state	: liquid
Form	: Soluble concentrate
Colour	: clear light yellow
Odour	: no data available
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: > 100 °C
Ignition temperature	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1,3 g/cm <sup>3</sup> at 20 °C
Water solubility	: completely soluble
pH	: ca.5
Partition coefficient: n-octanol/water	: log POW = -3,2 at 25 °C (Glyphosate)
Dissociation constant	: no data available
Viscosity, dynamic	: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Explosive properties	: Not explosive



## 9.2. Other information

none

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

No decomposition if stored and applied as directed.

### 10.5. Incompatible materials to avoid

no data available

### 10.6. Hazardous decomposition products

no data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute oral toxicity : LD50 rat  
Dose: > 2.000 mg/kg

Acute dermal toxicity : LD50 rat  
Dose: > 4.000 mg/kg

Acute inhalation toxicity : Remarks: Not relevant

Skin irritation : rabbit  
Result: No skin irritation  
Test substance: (Glyphosate IPA)



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Eye irritation : rabbit  
Result: No eye irritation

Sensitisation : mouse  
Result: Did not cause sensitization.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout)  
Dose: > 100 mg/l  
Testing period: 96 h

NOEC *Oncorhynchus mykiss* (rainbow trout)  
Dose: 100 mg/l

Toxicity to daphnia : EC50 *Daphnia magna* (Water flea)  
Dose: > 100 mg/l  
Testing period: 48 h

NOEC *Daphnia magna* (Water flea)  
Dose: 100 mg/l

Toxicity to algae : EyC50 *Desmodesmus subspicatus*  
Dose: > 100 mg/l  
Exposure time: 72 h

ErC50 *Desmodesmus subspicatus*  
Dose: > 100 mg/l  
Exposure time: 72 h

NOEC *Desmodesmus subspicatus*  
Dose: 31,3 mg/l

EC50 *Lemna gibba* (Duckweed)  
Dose: 31,9 mg/l  
Exposure time: 7 d





## 12.2. Persistence and degradability

Biodegradability : Partially biodegradable.

Stability in soil : DT50: 2 - 174 d  
DT90: < 20 d  
(Glyphosate)

Stability in water : DT50: < 7 d  
(Glyphosate)

## 12.3. Potential bioaccumulation

Bioaccumulation : Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 1  
Does not bioaccumulate.  
Test substance: (Glyphosate)

## 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

## SECTION 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 : In accordance with local and national 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



## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

### 14.2. Proper shipping name

not applicable

### 14.3. Transport hazard class(es)

ADR/RID :

Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.

IMDG :

Not a dangerous substance as defined in the above regulations.

IATA-DGR :

Not classified as dangerous in the meaning of sea and air transport regulations.

### 14.4. Packaging group

not applicable

### 14.5. Environmental hazards

not applicable

### 14.6. Special precautions for user

none

## SECTION 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



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directives or respective national laws.

### 15.2. Chemical Safety Assessment

none

## SECTION 16: OTHER INFORMATION

Print Date : 2015/11/26

The date format YYYY/MM/DD is used according to ISO 8601.  
(Alterations are indicated in the left hand margin by: || )

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.

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