



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

Champion WG

Version 4 (Georgia)

Issuing date: 2013/03/04

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

1.1. Product identifier

Trade name : **Champion WG**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Plant protection agent

1.3. Details of the supplier of the safety data sheet

Nufarm GmbH & Co KG
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A-4021 Linz
Austria
Telephone: +43/732/6918-4010
Telefax: +43/732/6918-64010
E-mail address: Johann.Mayr@at.nufarm.com

1.4. Emergency telephone number

+43/732/6914-2466 (Linz/Austria production site)
+43/1/4064343 (Poisson Control Centre)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EEC/99/45 :	Xn	R20/22 - Harmful by inhalation and if swallowed.
	Xi	R41 - Risk of serious damage to eyes.
	N	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

according directive 1999/45/EG

Pictogram:



Xn



N

- R20/22 - Harmful by inhalation and if swallowed.
 R41 - Risk of serious damage to eyes.
 R50/53 - Very 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.
 S20/21 - When using do not eat, drink or smoke.
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S39 - Wear eye/face protection.
 S46 - If swallowed, seek medical advice immediately and show this container or label.
 S56 - Dispose of this material and its container to hazardous or special waste collection point.
 S60 - This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture of active ingredient and additives
 copper content 500g/kg

3.2. Mixtures

Components:

copper(II)hydroxide

CAS-No.: 20427-59-2
 EINECS-No. / ELINCS No.: 243-815-9
 REACH No.:
 Concentration: 76,7 % (w/w)

Classification:

EG_1272/08 :	AcuteTox.4	H302 - Harmful if swallowed.
	AcuteTox.2	H330 - Fatal if inhaled.
	EyeDam.1	H318 - Causes serious eye damage.
	AquaticAcute1	H400 - Very toxic to aquatic life.
	AquaticChronic2	H411 - Toxic to aquatic life with long lasting effects.
EEC/67/548 :	Xn	R22 - Harmful if swallowed.



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. Call a physician immediately.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. Call a physician immediately.
- Inhalation : Move out of dangerous area. Move to fresh air. Obtain medical attention.
- Ingestion : Immediately give large quantities of water to drink. Call a physician immediately.

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

- Symptoms : Vomiting, Nausea, Abdominal pain

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

- Treatment : No specific antidote, symptomatic treatment. If ingested, irrigate the stomach.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Sand, Foam, Carbon dioxide (CO₂)

- 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 (CO_x) may be formed.

5.3. Advice for firefighters



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

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. (see Chapter 8)

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and collect in 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 : Wear personal protective equipment. Keep out of the reach of children.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

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

German storage class : 13/11 (Non combustible solids; Packaging possibly combustible)

Storage stability

Storage temperature : > 0 °C



7.3. Specific end use(s)

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters
(according Austrian occupational exposure limits)

Components	CAS-No.	National occupational exposure limits	Note
copper(II)hydroxide	20427-59-2	1 mg/m ³	inhalable fraction, (calculated as copper), (according Austrian occupational exposure limits)

8.2. Exposure controls

Personal protective equipment

- Respiratory protection : Suitable respiratory equipment:
- Hand protection : Gloves
- Eye protection : Goggles
- Skin and body protection : Protective suit
- Protective measures : Avoid contact with skin, eyes and clothing. Do not breathe dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

- Physical state : solid at 20 °C ,
- Form : granular
- Colour : greenish-blue
- Odour : odourless

Melting point/range : Decomposes before melting.

Boiling point/boiling range : no data available

Flash point : not applicable



Ignition temperature	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	Active ingredient is an inorganic salt. Vapour pressure is negligibly low.
Bulk density	:	873 kg/m ³
Water solubility	:	dispersible
pH	:	8,9
Partition coefficient: n-octanol/water	:	no data available
Dissociation constant	:	no data available
Viscosity, dynamic	:	not applicable

9.2. Other information

none

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 data available

10.4. Conditions to avoid



Decomposes above 60 °C to CuO and H₂O
none

10.5. Incompatible materials to avoid

none

10.6. Hazardous decomposition products

none

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity : LD50 rat
Dose: 550 - 2.000 mg/kg

Acute dermal toxicity : LD50 rat
Dose: > 5.000 mg/kg

Acute inhalation toxicity : Remarks: Not relevant

Skin irritation : rabbit
Result: Skin irritation

Eye irritation : rabbit
Result: Severe eye irritation
Remarks: Risk of serious damage to eyes.

Sensitisation : guinea pig
Result: Did not cause sensitization on laboratory animals.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish : flow-through test LC50 *Oncorhynchus mykiss* (rainbow trout)
Dose: 0,0165 mg/l
Testing period: 96 h
Test substance: (copper(II))hydroxide)



static test NOEC Oncorhynchus mykiss (rainbow trout)
Dose: 0,0155 mg/l
Testing period: 92 d
Test substance: (copper(II)hydroxide)

Toxicity to daphnia : static test EC50 Daphnia magna (Water flea)
Dose: 0,038 mg/l
Testing period: 48 h
Test substance: (copper(II)hydroxide)

Toxicity to algae : static test EbC50 Pseudokirchneriella subcapitata
Dose: 0,0093 mg/l
Exposure time: 72 h
Test substance: (copper(II)hydroxide)

12.2. Persistence and degradability

Biodegradability : no data available

Additional advice : The degree of mobility of copper in the environment depends upon the pH of ambient soils and waters, The lower the pH, the more soluble copper salts are and, hence, the more mobile.

12.3. Potential bioaccumulation

Bioaccumulation : no data available

12.4. Mobility in soil

no data available

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

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.

Do not dispose with household waste.

Dispose at an approved waste disposal facility. Dispose the product and its packages as dangerous waste.

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

14. TRANSPORT INFORMATION

14.1. UN number

UN3077

14.2. Proper shipping name

UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*(copper(II)hydroxide)

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 : MP

14.6. Special precautions for user

none

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

Water contaminating class : WGK 3
(Germany)

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

Dangerous substance : part 2, item 10
according to national
COMAH regulation

15.2. Chemical Safety Assessment

none

16. OTHER INFORMATION

Print Date : 2014/07/28

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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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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