


MATERIAL SAFETY DATA SHEET	Version 3	
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1. Identification of the substance/preparation and of the company

Identification of the preparation

Product name: **BCP 222 H**
 Formulation type: Suspension concentrate (SC)

Recommended use Herbicide

Company identification **Belchim Crop Protection NV/SA**
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 1840 Londerzeel
 Belgium
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2. Hazard identification*

Hazards according to the EC-directive of dangerous substances 1999/45/EC and its amendments:

Danger of serious damage to health by prolonged exposure.
 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazards according to Regulation (EC) n° 1272/2008:

May cause damage to organs through prolonged or repeated exposure.
 Very toxic to the aquatic life with long lasting effects.

3. Composition / Information on ingredients*

Hazardous ingredients	CAS/EINECS	Concentration (w/w)	Symbols	R-phrases
Metobromuron	3060-89-7/221-301-5	< 50%	Xn, N	R43, R48, R50/53
Sulfonated aromatic polymer	-/-	< 5%	Xi	R 36/38
Aqueous solution sodium hydroxide + 1,2-benzisothiazolin-3-one with dipropylene glycol BIT Solution	2634-33-5/220-120-9 1310-73-2	< 1%	C, N	R22, R34, R43, R50


4. First aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Skin contact : When in contact with the skin, clean with soap and water.
 Take off all contaminated clothing immediately.

Eye contact : In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.

Ingestion : Do not induce vomiting. Rinse mouth thoroughly with water. If symptoms persist, call a physician.

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Notes to Physician:

Metobromuron can induce methaemoglobin formation. Therapeutic agent: methylene blue.

5. Fire fighting measures


Suitable extinguishing media :	Carbon dioxide (CO ₂) Foam Powders
Not suitable extinguishing media :	Water (the product is hazardous for the environment - do not dilute it)
Specific fire fighting methods :	Isolate fire area. Evacuate downwind. Contain the extinguishing fluids by bunding (the product is hazardous for the environment). Do not attempt to fight the fire without suitable protective equipment. Do not breathe fumes.
Protection of fire-fighters :	Self-contained breathing apparatus. Complete protective clothing.

6. Accidental release measures

Personal precautions :	Wear suitable protective clothing and gloves (latex).
Environmental precautions :	Do not allow product to spread into the environment. Contain the spilled material by bunding (product is hazardous for the environment).
Methods for cleaning up :	
- Recovery :	Recover the product with absorbent material.
- Neutralization :	Absorb spillage with: - earth or sand. Neutralize non-recoverable product with : - a basic solution and an appropriate alcohol (methanol, ethanol or isopropanol).
- Cleaning/decontamination :	Wash with plenty of water and detergent.
- Disposal :	Dispose of contaminated material at an authorized site.

7. Handling and storage*

General:	Storage temperature : 0°C until 35°C
Handling	
Technical measures :	Ventilation
Precautions :	Avoid any direct contact with the product
Storage	
Storage conditions :	
- Recommended :	Store : - the container tightly closed and dry - in a cool, well-ventilated area - away from any source of ignition - out of reach of children. - away from food and drinks and animal foodstuffs

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Packaging materials :

- Recommended : Original packaging

8. Exposure controls/ Personal protection

Engineering measures : Ensure good ventilation of the work station.

Personal protective equipment :

- Respiratory protection : In the event of insufficient ventilation: Filtering respiratory protective device with a pesticide canister.

- Hand protection : Protective rubber gloves.
Neoprene protective gloves. Protective gloves made of PVC.

- Eye protection : Protective goggles.

- Skin and body protection : Handling product in large quantities :
Impermeable suit (Hypalon, Tyvek, Saranex, PVC...).

Hygiene measures :

Safety foot-wear.
Always wash your hands after handling the product.
Wash clothes before re-use.

9. Physical and chemical properties*

General information

Appearance: free flowing off-white suspension, small amounts of clear brown supernatant possible

Odour: faint aromatic

Important health, safety and environmental information

pH (1 %) : 7.4 – 9.0

Density: 1.219 g/cm³ at 20°C

Inflammability: not inflammable; flash point > 100°C

Solubility: dispersible in water

Product is neither explosive nor oxidising

10. Stability and reactivity

Stability : Stable at ambient temperature and under normal conditions of use.

Hazardous reactions :

- Conditions to avoid : May decompose :
- on high temperature (> 40°C)


- Hazardous decomposition products : On combustion or on thermal decomposition releases :
Carbon oxides
Nitrogen oxides
Bromine (Br)

11. Toxicological information*

Information below is related to the formulation

Acute Oral Toxicity LD₅₀ (rat) > 2000 mg/kg (approx. 2500 mg/kg)

Acute Dermal Toxicity LD₅₀ (rat) > 3000 mg/kg

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Local effects :

Skin Irritation	Not irritant
Eye Irritation	Not irritant
Skin sensitization	Not sensitizing (Guinea pig maximization test)

Can induce methaemoglobin formation/ haemolytic anemia after repeated doses.

Not mutagenic, oncogenic or reprotoxic.

12. Ecological information*

Information below is related to the formulation

Ecotoxicity

-Aquatic organisms:

EC ₅₀ (<i>Daphnia magna</i> /48h):	> 100 mg/l
LC ₅₀ (<i>Oncorhynchus mykiss</i> /96h):	> 100 mg/l

-Algae:

E _r C ₅₀ (<i>Pseudokirchneriella subcapitata</i> /72h):	1.39 mg/l
E _r C ₅₀ (<i>Anabaena flos-aquae</i> /72h):	10.6 mg/l

- Aquatic Plant:

E _r C ₅₀ (<i>Lemna gibba</i> /7d):	0.73 mg/L
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The mixture has not been tested for biodegradation but the active ingredient, metobromuron, is not readily biodegradable.

13. Disposal considerations

Waste from product

Prohibition :	Discharging waste into rivers and drains is prohibited.
Destruction/Disposal :	Dispose of in accordance with relevant local regulations. Incinerate at a licensed installation.

Contaminated packaging


Destruction/disposal :	Dispose of at an approved site. Incinerate at a licensed installation.
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14. Transport information

International regulations

Land transportation, Rail/road (RID/ADR)

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (experimental active substance)
UN number :	3082
Class :	9
Hazard identification number :	90
Labelling :	9
Packaging group :	III

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Sea transport (IMO/IMDG)

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (experimental active substance)

UN number : 3082

Class : 9

Labelling : 9

Packaging group : III

Transport/ special classification Marine pollutant

Air transport (ICAO-IATA)

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (experimental active substance)

UN number : 3082

Class : 9

Labelling : 9

Packaging group : III

Limited quantities (LQ)

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, only the following prescriptions shall be complied with: each package shall display a diamond-shaped figure with the following inscription: - 'UN 3082' or, in the case of different goods with different identification numbers within a single package:- the letters 'LQ'.

15. Regulatory information*

Classification and labelling according to the EC-directive of dangerous substances 1999/45/EC and its amendments:

Symbols and indications of danger : Xn – Harmful
N – Dangerous for the environment


R-phrases : R48 – Danger of serious damage to health by prolonged exposure.
R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : S2 – Keep out of reach of children.
S13 – Keep away from food, drink and animal feeding stuffs.
S29 – Do not empty into drains.
S35 – This material and its container must be disposed of in a safe way.
S36/37 – Wear suitable protective clothing and gloves.
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.
S61 – Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additional phrases : The following must appear on the label :
To avoid risks to man and the environment, comply with the instructions for use

Classification and labelling according to Regulation (EC) n° 1272/2008:

Hazard symbol: WARNING:
- GHS08: Specific Target Organ Toxicity — Repeated exposure, hazard category 2

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- GHS09: Aquatic acute hazard Category 1 – Aquatic chronic hazard Category 1 (M-factor: 1)

Hazard statement: H373: May cause damage to blood, liver, kidney and spleen through prolonged or repeated exposure
H410: Very toxic to the aquatic life with long lasting effects

Precautionary statements

Prevention: P260: Do not breathe dust/mist/spray.
P273: Avoid release to the environment.

Response: P314: Get medical advice/attention if you feel unwell.
P391: Collect spillage

Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

16. Other information

R phrases text of § 3: R22 - Harmful if swallowed.
R34 – Causes burns.
R36/38 – Irritating to eyes and skin
R43 – May cause sensitisation by skin contact.
R48 – Danger of serious damage to health by prolonged exposure.
R50/53- Very toxic to aquatic organisms ; may cause long-term adverse effects in the aquatic environment.

Sources of the data used: Dossiers Belchim Crop Protection NV
Classification Database ECB

Update : Subheadings and text which have been modified since the previous version are followed with an asterisk (*).

This sheet complements the technical sheets but it does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The mandatory regulations mentioned are only intended to help the user to fulfil his obligations regarding the use of hazardous products. This listing must not be considered exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

The labelling of the substances described in this MSDS complies with the provisions of Directive 67/548/CE, 93/112/CE, 99/45/CE and 2001/58/CE and amendments and Regulation 1272/2008. The MSDS is in compliance with REACH (1907/2006).

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