

SAFETY DATA SHEET BACTAKIL

Date of issue 07/01/1997

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

1.1 Product Identifier

Product Form: Mixture
Product Name: BACTAKIL
Product group: Blend

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

Use of substance / mixture: Agricultural Industry

Uses advised against: No additional information available

1.3 Details of the supplier of the safety data sheet

Osmonds, Bradeley Green, Tarporley Road, Whitchurch,

Shropshire, SY13 4HD

Telephone: +44 (0)1948 668100 Fax No: +44 (0(1948 668101

Email address: info@osmonds.co.uk

1.4 Emergency Telephone Number

01344 892 011 (UK Only) - National Poisons Information Service

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

| Acute Toxicity | Category 4 | H302 |
|-----------------------------------|------------|------|
| Serious eye damage/eye irritation | Category 2 | H319 |
| Skin corrosion/irritation | Category 2 | H315 |
| Acute aquatic toxicity | Category 1 | H400 |
| Chronic aquatic toxicity | Category 1 | H410 |

For the full text of the H-statements mentioned in this section, see section 16 **Most important adverse effects**

Human Health: See section 11 for toxicological information
Physical and chemical hazards: See section 9 for physiochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard symbols





Signal word: Warning

Hazard Statements: H302 Harmful if swallowed

H319 Causes serious eye irritation

H315 Causes skin irritation

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention P273 Avoid release into the environment

P280 Wear protective gloves / protective clothing / eye protection

/ face protection

Response P305 + P351 + p338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do so. Continue

rinsing.

P337 + P313 If eye irritation persists: Get medical advice / attention P301 + P312 If SWALLOWED: Call a POISON CENTRE / doctor if you feel

unwell

P302 + P352 If on skin: Wash with plenty of water / soap

2.3 Other hazards

No additional information available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixture

| | | | Classification (REGULATION (EC) No 1272/2008) | | | | |
|------------------------------|---|----|--|--------------------------------------|--|--|--|
| Name | Product identifier | % | Hazard Class/Hazard Category | Hazard Statements | | | |
| Copper sulphate pentahydrate | (CAS No) 7758-99-8 (EC No) 231-847-6 (EC Index No) 029-004-00-0 | 27 | Acute Tox.4 Eye Irrit.2 Skin irrit.2 Aquatic Acute.1 Aquatic Chronic.1 | H302 H319 H315 H400 H410 | | | |
| Sulphamic Acid | (CAS No) 5329-14-6 (EC No) 226-218-8 EC Index No) 016-026-00-0 | 13 | Eye Irrit.2 Skin irrit.2 Aquatic Acute.3 | H319 H315 H412 | | | |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Take off all contaminated clothing immediately

If inhaled: Remove to fresh air. If breathing is laboured, administer oxygen. If

symptoms persist, call a physician

In case of skin contact: After contact with skin, wash immediately with plenty of water, If

skin irritation persists, call a physician.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids for at

least 10 minutes. Consult an eye specialist immediately. Go to and

ophthalmic hospital if possible.

If swallowed: Rinse the mouth and spit the fluids out. Immediately give plenty of

water (if possible charcoal slurry). Never give anything by mouth to an unconscious person. Induce vomiting if the person is conscious.

Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: See Section 11 for more detailed information on health effects and

Symptoms.

Effects: See Section 11 for more detailed information on health effects and

Symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Dry Powder. Foam. Carbon dioxide

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Fire may cause evolution Sulphur oxides

5.3 Advice for firefighters

Protection during firefighting: In the event of a fire, wear self-contained breathing

apparatus. Wear appropriate body protection (full protective

suit)

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protection equipment as required. Avoid

contact with skin, eyes and clothing.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. If a

large spillage occurs and the product directly contaminates

rivers and lakes or drains, inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Do not touch spilled material. Absorb in dry sand or earth

and place into containers.

6.4 Reference to other sections

See section 8 for information on personal protection equipment See section 13 for waste treatment information

SECTION 7: HANDLING & STORAGE

7.1 Precautions for safe handling

Advice on safe handling: Keep container tightly closed. Avoid contact with the skin

and eyes.

Hygiene measures: Keep away from food, drink and animal feedingstuffs. Do not

eat, drink or smoke when using this product. Avoid contact

with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers:

Store in original container

Advice on protection against fire

and explosion

Normal measures for preventative fire protection

Further information on storage:

conditions

Keep container tightly closed when not in use.

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

Incompatible products: Oxidizing agent. Strong acids. Strong bases

7.3 Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

| Component: | copper sulphate pentahydrate | CAS-No. 7758-99-8 |
|----------------------------|--------------------------------------|-------------------|
| Derived No Effect Level (D | NEL)/Derived Minimal Effect Level (I | OMEL) |

No DNEL value was derived

| Predicted No Effect Concentration (PNEC) | | | | | |
|--|---------------|--|--|--|--|
| Fresh water | 7.8 μg/l | | | | |
| copper sulphate | | | | | |
| Marine water | 5.2 μg/l | | | | |
| copper sulphate | | | | | |
| Sewage treatment plant (STP) | 230 μg/l | | | | |
| copper sulphate | | | | | |
| Fresh water sediment | 87mg/kg d.w | | | | |
| copper sulphate | | | | | |
| Marine sediment | 676 mg/kg d.w | | | | |
| copper sulphate | | | | | |
| Soil | 65 mg/kg d.w | | | | |
| copper sulphate | | | | | |

8.2 Exposure controls

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory

equipment

Environmental exposure controls: Do not flush into surface water or sanitary sewer system. If a

large spillage occurs and the product directly contaminates

rivers and lakes or drains, inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

Physical state : Liquid

Appearance : Clear blue Liquid

Colour : Blue Odour : Acidic

Odour threshold : No data available

pH : 2.0

Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : No data available : No data available

Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid,gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : 1060 at 20°C

Relative density : No data available Density : No data available

Solubility : Soluble

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2 Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Oxidizing agents. Strong acids. Strong bases

10.6 Hazardous decomposition products

Sulphur oxides, toxic metal oxide fume

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| Component: c | ppper sulphate pentahydrate CAS-No. 7758-99-8 |
|-----------------------|---|
| | Acute toxicity |
| | Oral |
| LD50 | 450 – 1000mg/kg (Rat) |
| | Dermal |
| LD50 | >2000mg/kg (Rabbit) |
| | Irritation |
| | Skin |
| Result | Irritating to skin |
| | Eyes |
| Result | Irritating to eyes |
| | Sensitisation |
| Result | No sensitizing effect known |
| | |
| | CMR effects |
| | CMR properties |
| Carcinogenicity | It is not considered carcinogenic |
| Mutagenicity | In vitro tests did not show mutagenic effects |
| | In vivo tests showed mutagenic effects |
| Teratogenicity | No data available |
| Reproductive toxicity | No data available |
| | |
| | Specific Target Organ Toxicity |
| | Single exposure |
| Remark | The substance or mixture is not classified as specific target |
| | organ toxicant, single exposure |
| | Repeated exposure |
| Remark | The substance or mixture is not classified as specific target |
| | organ toxicant, single exposure |

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

| Component: | copper s | ulphat | e penta | hydra | ite | CA | S-No. | 7758-99- | -8 | |
|---|----------|--------|---------|--------|-------|-----------|-------|----------|------|------|
| | | | Acut | e toxi | city | | | | | |
| | | | | Fish | | | | | | |
| LC50 | | 0.75 | - 0.8 | 84 m | g/I (| (Oncorhyr | nchus | mykiss; | 96h; | Test |
| | | subst | ance: c | opper | sulp | hate) | | | | |
| Toxicity to daphnia and other aquatic invertebrates | | | | | | | | | | |
| EC50 | | 0.024 | mg/l | (Da | hnia | magna | (War | e flea); | 48h; | Test |
| | | subst | ance co | pper | sulph | nate) | | | | |
| Algae | | | | | | | | | | |

| EC50 | 0.1 mg/l (scenedesmus quadricauda; 4h; Test substance; |
|------|--|
| | copper sulphate) |

12.2 Persistence and degradability

| Component: | copper sulphate pentahydrate | CAS-No. 7758-99-8 | | | |
|-------------------------------------|------------------------------|----------------------------------|--|--|--|
| Persistence and degradability | | | | | |
| Biodegradability | | | | | |
| Result | The methods for dete | rmining biodegradability are not | | | |
| applicable to inorganic substances. | | | | | |

12.3 Bioaccumlative potential

No additional information available

12.4 Mobility in soil

The product is partly soluble in water

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

| Component: | copper sulphate pentahydrate CAS-No. 7758-99-8 | |
|------------|---|---|
| | Additional ecological information | |
| Result | Very toxic to aquatic organisms, may cause long-term | |
| | adverse effects in the aquatic environment. | |
| | The product should not be allowed to enter drains, water | |
| | courses or the soil | |
| | Danger to drinking water if even small quantities leak into |) |
| | the soil. | |

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special

disposal required according to local regulations. Do not let product

enter drains. Contact waste disposal services.

Contaminated packaging : Empty contaminated packaging thoroughly. They can be recycled

after thorough and proper cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product. The waste code is established in

consultation with the regional waste disposer.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

3082

14.2 UN proper shipping name

ADR Environmentally Hazardous Substance, Liquid, N.O.S

(Copper Sulfate pentahydrate) - in solution

RID Environmentally Hazardous Substance, Liquid, N.O.S

(Copper Sulfate pentahydrate) – in solution

IMDG Environmentally Hazardous Substance, Liquid, N.O.S

(Copper Sulfate pentahydrate) – in solution

14.3 Transport hazard classes

ADR

Transport hazard class : 9

Labels; Classification Code; : 9; M6; 90; (E)

Hazard identification No; Tunnel restriction code

RID

Transport hazard class : 9

Labels; Classification Code; : 9; M6; 90;

Hazard identification No;

IMDG

Transport hazard class : 9

Labels; EmS : 9; F-A, S-F

14.4 Packaging group

ADR : III
RID : III
IMDG :III

14.5 Environmental hazards

Environmentally hazardous according to ADR : yes Environmentally hazardous according to RID : yes Environmentally hazardous according to IMDG-Code : yes

14.6 Special precautions for user

Overland Transport

Classification code (ADR) : M6
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1

Packing Instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Mixed portable tank and bulk container : T4

Instructions (ADR)

Mixed portable tank and bulk container : TP1, TP29

Special provisions (ADR)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

| Com | ponent: | it: copper sulphate | | | ulphate pentahydrate | CAS-No. 7758-99-8 |
|------|-----------------------------------|---------------------|-----|-----|-----------------------------|-----------------------------|
| | Additional ecological information | | | | | |
| UK, | Releases | to | air | and | Annual reporting threshold: | 10kg |
| wate | er (UK ISR) | | | | | |
| UK, | Releases | to | air | and | Annual reporting threshold: | 20kg |
| wate | er (UK ISR) | | | | | |
| UK, | Releases | to | air | and | Annual reporting threshold: | 20kg |
| wate | er (UK ISR) | | | | | |
| WGk | (DE) | | | • | WGK2 water endangering 14 | 1; Classification source is |
| | | | | | Annex 2 | |

Notification status

Copper sulphate pentahydrate

| Regulatory List | Notification | Notification number |
|-----------------|--------------|---------------------|
| AICS | YES | |
| INV (CN) | YES | |
| ENCS (JP) | YES | (1)-300 |
| ISHL (JP) | YES | (1)-300 |
| IECSC | YES | |

15.2 Chemical safety assessment

No data available

16: OTHER INFORMATION

Full text of H Statements referred to under sections 2 and 3

| H302 | Harmful if swallowed |
|------|--|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| | |

The information provided is correct to our knowledge at the date of the revision and is intended to describe the product for the purposes of health, safety and environmental requirements. It should not therefore be construed as guaranteeing any specific property of the product.