

SAFETY DATA SHEET

ZORKAL AW

Page 1

Issued: 01/08/2008

Revision No: 3

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

Product name: ZORKAL AW

Product code: 201

Use of substance / preparation: This odourless food safe sanitiser concentrate kills bacteria when used at a concentration of 1%. Safe for use on all washable hard surfaces.

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2. HAZARDS IDENTIFICATION

Main hazards: Irritating to skin. Risk of serious damage to eyes. May cause sensitisation by skin contact. Very toxic to aquatic organisms. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE 1-10%

EINECS: 264-151-6 CAS: 63449-41-2

[C] R34; [Xn] R21/22; [N] R50

- POLYMERIC BIGUANIDE HYDROCHLORIDE <1%

CAS: 27083-27-8

[Xn] R22; [Xi] R37/38; [Xi] R41; [Sens.] R43; [N] R50/53

- (C9 - C18)PARETH(2 - 18) 1-10%

- DODECYL DIPROPYLENETRIAMINE <1%

CAS: 2372-82-9

[Xn] R22; [C] R34; [N] R50

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

[cont...]

SAFETY DATA SHEET

ZORKAL AW

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Stainless steel. Polyethylene. Glass.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves. Impermeable gloves.

Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Yellow

SAFETY DATA SHEET

ZORKAL AW

Odour: Characteristic odour
Evaporation rate: Moderate
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Soluble
Also soluble in: Ethanol.
Viscosity: Non-viscous
Relative density: 1.004
pH: 6 - 8
VOC g/l: 0

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Materials to avoid: Strong oxidising agents. Strong acids.
Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE
ORL RAT LD50 795 mg/kg
SKN RAT LD50 1560 mg/kg

- DODECYL DIPROPYLENETRIAMINE
ORL RAT LD50 200-2000 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Hazardous ingredients: ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE
DAPHNIA 48H EC50 0.03 mg/l
EARTHWORMS 96H LC50 1 - 10 mg/l
FISH 96H LC50 1.7 mg/l

- POLYMERIC BIGUANIDE HYDROCHLORIDE
ALGAE 48H EC50 .01 -0.1 mg/l
DAPHNIA 48H EC50 0.1 - 1 mg/l
FISH RAINBOW TROUT 96H LC50 0.1 -1 mg/l
- DODECYL DIPROPYLENETRIAMINE
ALGAE 72H IC50 0.015 mg/l
DAPHNIA 48H EC50 0.078 mg/l
FISH 96H LC50 0.431 mg/l

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents.

Bioaccumulative potential: No bioaccumulation potential.

Other adverse effects: Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: Not Classified.

IMDG / IMO

UN no: Not Classified.

IATA / ICAO

UN no: Not Classified.

15. REGULATORY INFORMATION

Hazard symbols: Irritant.



Risk phrases: R38: Irritating to skin.

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

R50: Very toxic to aquatic organisms.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye / face protection.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary phrases: Use biocides safely. Always read the label and product information before use.

Haz. ingredients (label): ALKYLDIMETHYLBENZYLAMMONIUM CHLORIDE; (C9 - C18)PARETH(2 - 18)

Seveso II guideline: No

Water hazard class: 1 Classification by VwVwS

Air emission directive: Amount m%: 0

Note: The regulatory information given above only indicates the principal regulations specifically

SAFETY DATA SHEET

ZORKAL AW

applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

Risk phrases used in s.3: R34: Causes burns.
R21/22: Harmful in contact with skin and if swallowed.
R50: Very toxic to aquatic organisms.
R22: Harmful if swallowed.
R37/38: Irritating to respiratory system and skin.
R41: Risk of serious damage to eyes.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

