

**Antec - Virkon® Tablet**

Version 2.2

Revision Date 24.05.2006

Ref. 130000027574

This SDS adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Product name : Antec - Virkon® Tablet

Use of the Substance/Preparation : Disinfectant, Cleaning agent

Company : Antec International Limited
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Remarks : Antec International Limited is a wholly owned subsidiary of Dupont (UK) Ltd.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
Pentapotassium bis(peroximonosulphate) bis(sulphate)	70693-62-8	274-778-7	C; R34 Xn; R22 R52	50 - 52
Alkyarylsulfonate sodium salt	25155-30-0	246-680-4	Xn; R22 Xi; R36/37/38	3 - 5
Sulfamic Acid	5329-14-6	226-218-8	Xi; R36/38 R52 -R53	4 - 6
Malic Acid	6915-15-7	230-022-8	Xn; R22 Xi; R37/38 -R41	20 - 25
Sodium Polyphosphate	68915-31-1	272-808-3	Xi; R36/37/38	20 - 25
Dipotassium peroxodisulphate	7727-21-1	231-781-8	O; R 8 Xn; R22 Xi; R36/37/38 R42/43	< 1,56

For the full text of the R phrases mentioned in this Section, see Section 16.

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3. HAZARDS IDENTIFICATION

Irritating to skin.
Risk of serious damage to eyes.
Harmful to aquatic organisms.

4. FIRST AID MEASURES

- General advice : Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position.
- Inhalation : Remove from exposure, lie down. If victim has stopped breathing: Artificial respiration and/or oxygen may be necessary. Consult a physician.
- Skin contact : Wash off immediately with plenty of water. Consult a physician.
- Eye contact : Remove contact lenses. Rinse immediately with plenty of water and seek medical advice. Call a physician immediately.
- Ingestion : Do NOT induce vomiting. If conscious, drink plenty of water. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Foam, Dry powder, Carbon dioxide (CO₂),
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Evacuate personnel to safe areas. Use personal protective equipment.
- Environmental precautions : Try to prevent the material from entering drains or water courses.
- Methods for cleaning up : Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After cleaning, flush away traces with water.
- Additional advice : Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : Avoid dust formation in confined areas. For personal protection see section 8.

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Avoid contact with skin and eyes.

Storage

Requirements for storage areas and containers : Protect from contamination. Store in original container. Keep in a dry, cool place.

Advice on common storage : Keep away from: Combustible material

Other data : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering measures**

Provide local exhaust ventilation when handling material in bulk.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection : Rubber gloves

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear as appropriate: Apron Boots Remove and wash contaminated clothing before re-use.

Hygiene measures : Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : tablet,
Colour : pink,
Odour : none,
pH : 2,5 - 3,0
Flash point : does not flash
Water solubility : 65 g/l at 20 °C

10. STABILITY AND REACTIVITY

Conditions to avoid : Exposure to moisture.

Materials to avoid : Strong bases, Combustible material

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Hazardous decomposition : Sulphur dioxide, chlorine products

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50/ rat: 4 123 mg/kg

Acute oral toxicity
• Pentapotassium bis(peroximonosulphate) bis(sulphate) : LD50/ rat : 200 - 2 000 mg/kg
• Dipotassium peroxodisulphate : LD50/ rat : 1 100 mg/kg

Acute inhalation toxicity : LC50/ 4 h / rat : 3,7 mg/l
Method: aerosol

Acute inhalation toxicity
• Pentapotassium bis(peroximonosulphate) bis(sulphate) : LC50/ 4 h/ rat : > 5 mg/l

Acute dermal toxicity : LD50/ rabbit 2 200 mg/kg

Acute dermal toxicity
• Pentapotassium bis(peroximonosulphate) bis(sulphate) : LD50/ rat : > 2 000 mg/kg
• Dipotassium peroxodisulphate : LD50/ rabbit : > 10 000 mg/kg
Skin irritation : Moderate skin irritation

Eye irritation : Risk of serious damage to eyes.

Sensitization : Buehler Test guinea pig Result: Animal test did not cause sensitization by skin contact.

Maximisation Test (GPMT) guinea pig Result: Animal test did not cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

Biodegradability : Expected to be biodegradable

Toxicity to fish
• Pentapotassium bis(peroximonosulphate) bis(sulphate) : LC50 / 96 h/ Oncorhynchus mykiss (rainbow trout) : 53 mg/l

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Aquatic toxicity

- Pentapotasium : / EC50/ 48 h/ Daphnia: 3,5 mg/l
- bis(peroximonosulphate)
- bis(sulphate)

13. DISPOSAL CONSIDERATIONS

- Product : Dispose of as special waste in compliance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.
- Contaminated packaging : If recycling is not practicable, dispose of in compliance with local regulations.

14. TRANSPORT INFORMATION

- Further Information : Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

- Symbol(s) : Xi Irritant
- R-phrases(s) : R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R52 Harmful to aquatic organisms.
- S-phrases(s) : S 2 Keep out of reach of children.
S24/25 Avoid contact with skin and eyes.
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.
- Sensitising components contains:
Dipotassium peroxodisulphate
May produce an allergic reaction.

16. OTHER INFORMATION**Text of R phrases mentioned in Section 2**

- R 8 Contact with combustible material may cause fire.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R36/38 Irritating to eyes and skin.
- R37/38 Irritating to respiratory system and skin.
- R41 Risk of serious damage to eyes.
- R42/43 May cause sensitization by inhalation and skin contact.

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R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

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