


**Antec<sup>®</sup> Virkon Professional powder**

Version 2.1

Revision Date 21.12.2005

Ref. 130000027573

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<sup>®</sup> Virkon Professional powder

Use of the Substance/Preparation : CUST-Y01.00000200, CUST-N02.00939930

Company : Antec International Limited  
Windham Road  
Chilton Industrial Estate  
Sudbury / Suffolk - CO10 2XD  
United Kingdom

Telephone : +44(0)1787 377 305

Telefax : +44(0)1787 310 846

Emergency telephone number : +44-(0)8456-006.640

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	40 - 50
Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts	90194-45-9	290-656-6	Xi; R36/38 Xn; R21	10 - 12
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	7 - 10
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	< 1,49

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 (CO<sub>2</sub>),

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**
**Components with workplace control parameters**

Components	CAS-No.	Type Form of exposure	Control parameters	Update	Basis
Dipotassium peroxodisulphate	7727-21-1	TWA	1 mg/m <sup>3</sup>	2002	EH40 OES

**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 : powder,

Colour : pink,

Odour : pleasant, sweet,

pH : 2,4 - 2,7

Flash point : does not flash

Relative density : 1,07


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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

Hazardous decomposition products : Sulphur dioxide, chlorine

**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  
 • Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts : LD50/ rat male: 840 mg/kg  
 LD50/ mouse male 1 250 mg/kg

• Dipotassium peroxodisulphate : LD50/ rabbit : > 10 000 mg/kg

Skin irritation : Moderate skin irritation

Skin irritation  
 • Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts : irritating

Eye irritation : Risk of serious damage to eyes.


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## Eye irritation

• Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts : Method: OECD Test Guideline 405 Eye irritation

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.

## Sensitization

• Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts : Maximisation Test (GPMT) guinea pig Result: Did not cause sensitization on laboratory animals. Method: OECD Test Guideline 406

**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

• Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts : LC50 / 96 h/ Zebra fish : 5,1 mg/l

## Aquatic toxicity

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

**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**


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Symbol(s)	: Xi	Irritant
Hazardous components:	Pentapotassium bis(peroximonosulphate) bis(sulphate) Malic Acid	
R-phrase(s)	: R38 R41 R52	Irritating to skin. Risk of serious damage to eyes. Harmful to aquatic organisms.
S-phrase(s)	: S 2 S22 S24/25 S26  S36/37/39	Keep out of reach of children. Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, 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.
R21	Harmful in contact with skin.
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.
R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

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.