

Virkon® -S

Version 2.10

Revision Date 21.09.2007

Ref. 130000014173

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

: Virkon® -S

Use of the

Company

: Disinfectant, Cleaning agent

Substance/Preparation

: Antec International Limited

Windham Road

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United Kingdom

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Remarks

: Antec International Limited is a wholly owned subsidiary of

Dupont (UK) Ltd.

2. HAZARDS IDENTIFICATION

Irritating to skin.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
Pentapotassium bis(peroximonosulphate) bis(sulphate)	70693-62-8	274-778-7	Xn; R22 C; R34 R52	40 - 50
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	270-115-0	Xi; R36/38	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	< 1,49

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	Xn; R22 Xi; R36/37/38 R42/43	
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For the full text of the R phrases mentioned in this Section, see Section 16.

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.

: Remove contact lenses. Rinse immediately with plenty of water and seek Eye contact

medical advice. Call a physician immediately.

Do NOT induce vomiting. If conscious, drink plenty of water. Call a physician Ingestion

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

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Advice on safe handling

: Avoid dust formation in confined areas. For personal protection see section 8.

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
Dust (total and inhalable dust)		TWA Inhalable dust.	10 mg/m3	2005	EH40 WEL
0		TWA Respirable dust.	4 mg/m3	2005	EH40 WEL
Dipotassium peroxodisulphate	7727-21-1	TWA	1 mg/m3	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,

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Odour : pleasant, sweet,

pH : 2,4 - 2,7

Flash point : does not flash

Relative density : 1,07

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/kgMethod: OECD Test Guideline 401

Acute oral toxicity

Pentapotassium
LD50/ rat: 200 - 2 000 mg/kg

bis(peroximonosulphate)

bis(sulphate)

• Dipotassium : LD50/ rat : 1 100 mg/kg

peroxodisulphate

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

Method: aerosol

Acute inhalation toxicity

• Pentapotassium : LC50/ 4 h/ rat : > 5 mg/l

bis(peroximonosulphate)

bis(sulphate)

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

Acute dermal toxicity

Pentapotassium

bis(peroximonosulphate)

bis(sulphate)

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

 Dipotassium peroxodisulphate

Skin irritation : Method: OECD Test Guideline 404 Moderate skin irritation

: LD50/ rat : > 2 000 mg/kg

Eye irritation : Risk of serious damage to eyes.

Sensitisation : Buehler Test guinea pig Result: Animal test did not cause sensitization by skin

contact.

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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

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

S-phrase(s)

Labelling according to EC Directives

Symbol(s) : Xi Irritant

R-phrase(s) : R38 Irritating to skin.

R41 Risk of serious damage to eyes. R52 Harmful to aquatic organisms.

S 2 Keep out of reach of children.

S22 Do not breathe dust.

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.

S36/37/39 Wear suitable protective clothing, gloves and eye/face

protection.

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Sensitising components

contains

Dipotassium peroxodisulphate May produce an allergic reaction.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

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.

R52 Harmful to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

Significant change from previous version is denoted with a double bar.

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