

Virkon® -S

Version 3.0

Revision Date 10.06.2010 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/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Product name : Virkon® -S

Use of the : Disinfectant, Cleaning agent

Substance/Mixture

Company : Antec International Limited

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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.	Registration number	Classification	Concentration [%]
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8	274-778-7		Xn; R22 C; R34 R52	40 - 50
Sodium C10-13- alkylbenzenesulfonate	68411-30-3	270-115-0		Xn; R22 Xi; R38 -R41	10 - 12
Sulphamidic 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

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Sodium Polyphosphate	68915-31-1	272-808-3	Xi; R36/3	7/38 20 - 25
Sodium toluenesulfonate	12068-03-0	235-088-1	Xi; R36/3	8 1 - 5
Sodium chloride	7647-14-5	231-598-3	Xi; R36	1 - 5
Dipotassium peroxodisulphate	7727-21-1	231-781-8	O; R 8 Xn; R22 Xi; R36/3 R42/43	7/38

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. When symptoms

persist or in all cases of doubt seek medical advice.

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.

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.

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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.

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 (inhalable and respirable fraction)		TWA Inhalable dust.	10 mg/m3	2007	EH40 WEL
		TWA Respirable dust.	4 mg/m3	2007	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

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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.



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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

Water solubility : 65 g/l at 20 ℃

10. STABILITY AND REACTIVITY

Conditions to avoid : Exposure to moisture.

Materials to avoid : Strong bases, Combustible material

Hazardous decomposition

products

: Sulphur dioxide, Chlorine

Hazardous reactions : No dangerous reaction known under conditions of normal use. Stable under

recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50/ rat: 4 123 mg/kgMethod: OECD Test Guideline 401

Acute oral toxicity

bis(sulphate)

 Pentapotassium bis(peroxymonosulphate) : LD50/ rat : 200 - 2 000 mg/kg Gastrointestinal ulceration

Internal bleeding

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(peroxymonosulphate)

bis(sulphate)

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

Acute dermal toxicity

Pentapotassium : LD50/ rat : > 2 000 mg/kg

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bis(peroxymonosulphate)

bis(sulphate)

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

Skin irritation

Pentapotassium

: Corrosive

bis(peroxymonosulphate)

bis(sulphate)

Eye irritation : Risk of serious damage to eyes.

Eye irritation

Pentapotassium

: Corrosive

bis(peroxymonosulphate)

bis(sulphate)

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

contact.

Maximisation Test guinea pig Result: Animal test did not cause sensitization by

skin contact.

Sensitisation

Pentapotassium

bis(peroxymonosulphate)

bis(sulphate)

: Classification: May cause sensitization by skin contact. Patch test on human

volunteers did not demonstrate sensitization properties.

Repeated dose toxicity

• Sodium toluenesulfonate : Oral rat

No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Expected to be biodegradable

Toxicity to fish

Pentapotassium

: LC50 / 96 h/ Oncorhynchus mykiss (rainbow trout) : 53 mg/l

bis(peroxymonosulphate)

bis(sulphate)

Toxicity to algae

: / ErC50/ 72 h/ Algae: > 1 mg/l Pentapotassium

bis(peroxymonosulphate)

bis(sulphate)

Aquatic toxicity

Pentapotassium

: / EC50/ 48 h/ Daphnia: 3,5 mg/l

bis(peroxymonosulphate) bis(sulphate)

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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-phrase(s) : R38 Irritating to skin.

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

S-phrase(s) : S2 Keep out of the 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.

S60 This material and its container must be disposed of as

hazardous waste.

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.

R32 Harmful if swallowed.
R34 Causes burns.
R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

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R37/38 Irritating to respiratory system and skin.

R38 Irritating to 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.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

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