

ANTEC VIRKON S

SAFETY DATA SHEET HSD/36I

(1) <u>IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND</u>

COMPANY

Name: Antec Virkon S (Powder as supplied)

Supplier: DuPont Animal Health Solutions

Windham Road

Chilton Industrial Estate

Sudbury Suffolk CO10 2XD

Tel: 44-(0)1787-377305 **Fax:** 44-(0)1787-310846

(2) <u>COMPOSITION/INFORMATION ON INGREDIENTS</u>

Composition: A blend of an inorganic peroxygen compound, inorganic salts, organic acid,

anionic detergent, fragrance and dye.

Chemical	% Concentration	Classification	CAS	Exposure
Pentapotassium	< 50	C;R34.	70693-62-8	None assigned
bis(peroxymonosulphate)		Xn;R22		
bis(sulphate)		R52		
Sulphamidic acid	5 - 10	$X_i; R36/38$	5329-14-6	None assigned
		R52/53		
Sodium dodecylbenzenesulfonate	5 - 15	X _n ;R22 X _i ;R36/38	25155-30-0	None assigned
Dipotassium peroxodisulphate	<2%	O; R8 Xn; R22 Xi; R36/37/38 R42/43	7727-21-1	OES 1mg.m ⁻³ 8 hour TWA ref. period.

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

(3) <u>HAZARDS IDENTIFICATION</u>

May cause serious eye damage.

Irritating to skin.

May cause irritation to the respiratory system through dust release.

Harmful to aquatic organisms.



(4) FIRST AID MEASURES

Exposure Route Symptom **Treatment INHALATION** Irritation to nose, throat, lungs, Remove to fresh air. If symptoms of respiratory tract. coughing, choking or wheezing prove troublesome, or recovery is not rapid, seek medical attention. **SKIN CONTACT** May cause irritation, especially Drench skin with plenty of water. under moist conditions. Remove contaminated clothing. If irritation persists after rinsing with water, consult a medical advisor. **EYE CONTACT** Rinse thoroughly with clean water or Strong irritation, corrosion. buffered eye wash for at least 15

INGESTION May cause severe irritation to

mouth, throat, digestive tract and

stomach.

Do NOT induce vomiting. Drink plenty of water (or milk) if conscious. Obtain

minutes. Obtain medical attention.

immediate medical attention

(5) <u>FIRE-FIGHTING MEASURES</u>

Suitable

Extinguisher: FOAM, DRY POWDER, CO₂

Special

Precautions: VIRKON S itself is not flammable, but may assist combustion of other

materials under exceptional circumstances, e.g. when involved in a fire.

Special Protective

Equipment: Fire-fighting personnel are required to wear self contained breathing

apparatus in the event of a fire involving Virkon S, since release of Sulphur

dioxide gas may occur.

(6) <u>ACCIDENTAL RELEASE PROCEDURES</u>

Personal

Precautions: Wear protective equipment (see section 8).

Prevent build up of dust as far as possible and remove sources of ignition.

Environmental

precautions: Do not allow the powder concentrate to enter drains or water courses. Small

quantities (<1kg) however may be diluted to waste via a treatment facility with

large quantities of water. Observe local restrictions.

Methods for

Cleaning up: Sweep up carefully to prevent formation of dusts, preferably with aid of a

suitable dry anti-dusting agent if available. Keep product dry, if possible, during clean-up procedure. Place in suitable containers for disposal. Prevent powder from becoming moist whilst awaiting disposal, if possible. Clean affected area

thoroughly with water.



Moist product awaiting disposal must be kept away from combustible material and stored in manner which allows suitable ventilation of the waste.

(7) <u>HANDLING AND STORING</u>

Precautions

during handling: Handle with sufficient care to prevent dust build up.

The use of L.E.V. may be required when handling the product supplied in bulk

quantities.

Wear protective clothing. (see section 8).

Where significant dust formation occurs (e.g. when handling bulk quantities) the

use of a suitable dust mask may be required (see section 8).

Storage: Keep containers tightly sealed and avoid coming into contact with moisture

during storage. Keep away from combustible material.

Avoid contamination of product.

Virkon S 1% solution: Store in clean loosely capped plastic containers at normal temperatures away from direct sunlight. Do not allow to freeze. Discard solution

either once the colour is lost, or after 7 days from date of preparation.

(8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering

measures: Appropriate Local Exhaust Ventilation (L.E.V.) is necessary for handling the

product in situations where dust formation is a problem ie. product in bulk quantities. Not normally necessary for preparation of solutions from 50g, 2.5kg,

1kg and 5kg packs.

Control

Parameters: Respirable dusts - 10mg/m³ 8 hr T.W.A. (OES EH40 2002).

Potassium persulphate – 1mg.m³ 8hr T.W.A (OES EH40 2002).

Personal Protection

Respiratory: <u>Powder Concentrate:</u>

Where necessary, dust mask for fine particles (eg. 3M Type 8710).

Diluted Product:

When working in mists of Virkon S (diluted in conjunction with Virkon S Fog Enhancer), respiratory protection in the form of a type AP (organic vapour - particulate matter) filter is recommended (e.g Arco Filtermax face mask and A_2P_3

filter).

Hand: Rubber gloves (eg. Marigold type G01R)

Eye: Goggles or face-shield to BS EN166.

Skin: Overalls may be required for dealing with large spills or when handling the

product in large quantities.



(9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance/

Odour: Pink, free flowing powder with faint lemon odour.

pH (1% solution,

20°C): 2.6

Boiling point/

Range: Decomposes on heating.

Flash Point: Not applicable.

Explosive

properties: Not applicable.

Oxidising

properties: Not oxidising.

Specific gravity: 1.07 approximately.

Solubility

(water at 20°C): Approximately 65g/litre.

(10) <u>STABILITY AND REACTIVITY</u>

Stability: Stable under normal conditions.

Conditions to

avoid: Moisture ingress to the stored powder, which will cause rapid product

degradation.

Materials to

avoid: Strong alkalis

Salt (Sodium chloride)

Combustible materials

Hazardous decomposition

products: Oxygen, Sulphur dioxide.

Chlorine under certain extreme conditions if powder is allowed to become moist.

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(11) <u>TOXICOLOGICAL INFORMATION</u>

TEST DATA

Acute oral toxicity: LD₅₀ (Rat), 4123mg/kg

Acute dermal

toxicity: LD_{50} (Rat) 2200mg/kg



Skin

irritation: Powder:

Moderately irritating primary irritation index = 2.8

Virkon S 1% solution:

Non-irritating primary irritation index = 0

Eye irritation: Powder:

May cause eye damage

Virkon S 1% solution:

Non-irritating.

Skin

Sensitisation: Powder:

Not sensitising (Guinea pig, Magnusson & Kligman Maximisation Method, and;

Guinea pig, Modified Buehler method).

Virkon S 1% solution:

Not sensitising (Guinea pig, Magnusson & Kligman Maximisation Method).

Human

experience: The powder product is a strong eye irritant, irritant to skin and by inhalation of

the dust.

(12) <u>ECOLOGICAL INFORMATION</u>

Persistence and

degradability: No data is available. However, based on evaluation of its components in

accordance with 1999/45/EC, this product is not expected to display long term

adverse effects in the aquatic environment.

Bioaccumulation: Not noted.

Aquatic

toxicity: Harmful to aquatic organisms.

(13) <u>DISPOSAL CONSIDERATIONS</u>

Disposal of

product: Dispose of as Special Waste in compliance with the Special Waste Regulations

1996. Observe local restrictions.

Disposal of

packaging: Dispose of in compliance with the Environmental Protection (Duty of Care)

Regulations 1990.

(14) TRANSPORT INFORMATION

U.N. Number: None assigned

U.K. Road

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(CDG-CPL): Not classified

Sea (IMDG): Road/Rail

(RID/ADR): Not classified
Class Number: None assigned

Packing

Group: None assigned

Proper

Shipping Name: Not applicable

Marine

Pollutant: No

(15) **REGULATORY INFORMATION**

Not classified

Legislation: The product is labelled in accordance with the Chemicals (Hazard Information

and Packaging) Regulations 2002 (CHIP3). The product must be handled in accordance with the COSHH (Control of Substances Hazardous to Health)

Regulations 2002.

Symbol: Irritant (X_i)



Irritant

R-Phrases: R38 Irritating to skin.

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

S-Phrases: S2 Keep out of reach of children

S22 Do not breathe the dust

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of

water, seek medical advice.

(16) <u>OTHER INFORMATION</u>

Uses: Disinfectant/Cleaning agent

Further product

information: Consult Virkon S technical leaflet or Antec website www.antecint.co.uk for

further information. For uses other than those labelled on the package, please

consult manufacturer prior to proceeding.

The customer should satisfy themselves that the product is suitable for the intended purpose, and that a suitable and sufficient assessment of any risks created by any activity using this product is undertaken before use.



Explanation of Risk Phrases (R-phrases) mentioned in section 2:

R8 Contact with combustible material may cause fire.

R22 Harmful if swallowed.

R34 Causes burns

R36/38 Irritating to eyes and skin.

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

R42/43 May cause sensitisation by inhalation and skin contact.

R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic

environment.

Changes made since the last edition are indicated by a line in the margin.

The above information is based upon our current state of knowledge of the product at the time of publication. The data is given in good faith and is designed only as a guidance to users of possible risks, and therefore does not constitute a guarantee of product quality or performance.

Revision: J

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Date: 1st May, 2009

Replaces: G Dated, 21st October 2004

EMERGENCY TELEPHONE NUMBER (UK): 01787 377305