

ANTEC VIRKON**SAFETY DATA SHEET HSD/1H****(1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY****Name:** Antec Virkon (Powder as supplied)**Supplier:** Antec International Limited
Windham Road
Chilton Industrial Estate
Sudbury
Suffolk
CO10 2XD**Tel:** 44-(0)1787-377305**Fax:** 44-(0)1787-310846**(2) COMPOSITION/INFORMATION ON INGREDIENTS****Composition:** A blend of an inorganic peroxygen compound, inorganic salts, organic acid, anionic detergent.

<u>Chemical</u>	<u>% Concentration</u>	<u>Classification</u>	<u>CAS</u>	<u>Exposure</u>
Potassium Peroxomonosulphate	50	C;R34	70693-62-8	5mg/m ³ 8 hour TWA (respirable dust- manufacturer's recommendation)
Sulphamic acid	5	X _i ;R36/38	5329-14-6	
Sodium alkyl benzene sulphonate	15	X _n ;R22 X _i ;R36/38	25155-30-0	

(3) HAZARDS IDENTIFICATION

May cause eye damage.
Irritant to skin.
May cause irritation through dust release

(4) FIRST AID MEASURES

<u>Exposure Route</u>	<u>Symptom</u>	<u>Treatment</u>
INHALATION	Irritation to nose, throat, lungs respiratory tract.	Remove to fresh air. If symptoms of coughing, choking or wheezing prove troublesome, or recovery is not rapid, seek medical attention.
SKIN CONTACT	May cause irritation, especially under moist conditions	Drench skin with plenty of water. Remove contaminated clothing. If irritation persists after rinsing with water, consult a medical advisor.

EYE CONTACT	May cause eye damage.	Rinse thoroughly with clean water or buffered eye wash for at least 15 minutes. Obtain medical attention.
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 immediate medical attention.

(5) **FIRE-FIGHTING MEASURES**

Suitable

Extinguisher: WATER, FOAM, DRY POWDER, CO₂

Special

Precautions: Virkon itself is not flammable, but may assist combustion of other materials under exceptional circumstances.

Special Protective Equipment:

Firefighting personnel are required to wear breathing apparatus in the event of a fire involving Virkon, since release of Sulphur dioxide gas may occur.

(6) **ACCIDENTAL RELEASE PROCEDURES**

Personal

Precautions: Wear gloves, overalls, eye protection and dust mask as specified in 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. Small quantities (<1kg) however may be diluted to waste with large quantities of water. Do not allow entry to surface waters.

Methods for Cleaning up:

Sweep up carefully, preferably with aid of a suitable dry anti-dusting agent if available. Place in suitable containers for disposal. Prevent powder from becoming moist whilst awaiting disposal, if possible.

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

(7) **HANDLING AND STORING**

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.

Ensure adequate ventilation.

Wear protective clothing. (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 1% solution: Store in clean loosely capped polythene bottles 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, 500g, 1kg and 5kg packs.

Control Parameters: 5mg/m³ (8 hr T.W.A.) for respirable dust (manufacturers recommendation).

Personal Protection

Respiratory: Dust mask for fine particles (eg. 3M Type 8710)

Hand: PVC or rubber gloves (eg. Marigold type G17K)

Eye: Goggles or faceshield to B.S.2092 standard.

Skin: Overalls

(9) **PHYSICAL AND CHEMICAL PROPERTIES**

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

pH (1% solution, 20°C): 2.6

Boiling point/Range: Decomposes on heating.

Flash Point: Not applicable.

Explosive properties: Not applicable.

Specific gravity: 1.07 approximately.

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

(10) **STABILITY AND REACTIVITY**

Stability: Stable under normal conditions.

Conditions to avoid: Moisture ingress to the stored powder.

Materials to avoid: Strong alkalis
Salt (Sodium chloride) KCl, KBr, KI.
Virkon may react with these substances in solution to release halogen gases (Cl₂, Br₂ or I₂)
Combustible materials.

Hazardous decomposition products: Oxygen, Sulphur dioxide. Chlorine under certain extreme conditions if powder becomes moist.

(11) **TOXICOLOGICAL INFORMATION**

TEST DATA

Acute oral toxicity: 4123 mg/kg

Acute dermal toxicity: greater than 2000mg/kg

Skin irritation: Moderately irritating primary irritation index = 2.8

Virkon 1% solution: Non-irritating primary irritation index = 0

Eye irritation: May cause eye damage.

Virkon 1% solution: Non-irritating.

Skin Sensitisation: Not sensitising as Virkon 1% solution.

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

(12) **ECOLOGICAL INFORMATION**

Persistence and degradability: Expected to be biodegradable. The product contains 75% inorganic salts, with the remaining organic components Malic acid and Sodium alkyl benzene sulphonate both conforming to EEC Biodegradability requirements.

Aquatic toxicity: No data on fish toxicity. Virkon diluted to a level of 1:50000 has been shown to have no effect on the Biochemical Oxygen Demand, (B.O.D.) 5-day test.

(13) **DISPOSAL CONSIDERATIONS**

Disposal of product: Dispose of as Special Waste in compliance with The Special Waste Regulations 1996.

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 (CDG-CPL): Not classified

Sea (IMDG): Not classified

Road/Rail (RID/ADR): Not classified

Class Number: None assigned

Packaging Group: None assigned

Correct Shipping Name: Not applicable

Marine Pollutant: No

(15) **REGULATORY INFORMATION**

Legislation: The product is labelled in accordance with the Chemicals (Hazard Information and Packaging for Supply (Amendment) Regulations) 1996 (CHIP96). The product must be handled in accordance with the COSHH (Control of Substances Hazardous to Health) Regulations 1994.

Symbol: Irritant (Xi)

R-Phrases: R38 Irritating to skin.
R41 Risk of serious damage to eyes.

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) OTHER INFORMATION

Uses: Disinfectant/Cleaning agent

Further product information:

Consult Virkon technical leaflet for Human Health applications. 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.

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.

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