RMS

ELL MAINSTREAM SUPPLY LTD

VIRKON

SAFETY DATA SHEET HSD/II

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

COMPANY

Name: Virkon (Powder as supplied)

Supplier: Russell Mainstream Supply Limited

2 Commercial Road

Ladybank Cupar Fife KY15 7JS

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, fragrance and dye.

Chemical Pentapotassium bis(peroxymonosulphate) bis(sulphate)	% Concentration <50	Classification C;R34. Xn;R22 R52	<u>CAS</u> 70693-62-8	Exposure 10mg/m³ 8 hour TWA ref. period (respirable dust - manufacturer's recommendation)
Sulphamidic acid	5 - 10	X _i ;R36/38 R52/53	5329-14-6	None assigned
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, 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

Strong irritation, corrosion.

Rinse thoroughly with clean water or buffered eye wash for at least 15 minutes. Obtain medical attention.

INGESTION

May cause severe irritation to

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

immediate medical attention

mouth, throat, digestive tract and

stomach.

(5)

FIRE-FIGHTING MEASURES

Suitable

Extinguisher:

FOAM, DRY POWDER, CO2

Special

Precautions:

VIRKON 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, since release of Sulphur

dioxide gas may occur.

(6)

ACCIDENTAL RELEASE PROCEDURES

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) 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.

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 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) <u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

Engineering measures:

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

product in situations where dust formation is a problem ie. in bulk quantities. Not normally necessary for preparation of solutions from 50g, 2.5kg, 1kg and

5kg packs.

Control

Parameters:

10mg/m³ (8 hr T.W.A.) for respirable dust (manufacturers recommendation).

Personal Protection

Respiratory: Powder Concentrate:

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

Diluted Product:

When working in mists of Virkon, respiratory protection in the form of a type

AP (organic vapour - particulate matter) filter is recommended (e.g Arco

Filtermax face mask and A₂P₃ 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)STABILITY AND REACTIVITY

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.

(11)TOXICOLOGICAL INFORMATION

TEST DATA

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

Acute dermal

toxicity:

LD₅₀ (Rat) 2200mg/kg

Skin

irritation:

Powder:

Moderately irritating primary irritation index = 2.8

Virkon 1% solution:

Non-irritating primary irritation index = 0

Eye irritation:

Powder:

May cause eye damage

Virkon 1% solution; Non-irritating.

Skin

Sensitisation:

Powder:

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

Guinea pig, Modified Buehler method).

Virkon 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: N

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

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

Symbol:

Irritant (Xi)



Irritant

R-Phrases:

R38

Irritating to skin.

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

S-Phrases:

S2

Keep out of reach of children

S22 S24/25 Do not breathe the dust

324/4

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:

For uses other than those labelled on the package, please consult

us 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.

ANTEC VIRKON

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

Contact with combustible material may cause fire.
Harmful if swallowed.
Causes burns
Irritating to eyes and skin.
Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation and skin contact.
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:

Date: 12.07.04

Replaces: H Dated, 4th January 2001

[

EMERGENCY TELEPHONE NUMBER (UK): 01787 377305