

PERASAFE**SAFETY DATA SHEET HSD/53D****(1) IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

Name: Perasafe

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(2) COMPOSITION/INFORMATION ON INGREDIENTS

Composition: A powder blend containing an oxygen source, stabilisers, corrosion inhibitors, buffers and surfactant.

<u>Chemical</u>	<u>% Concentration</u>	<u>Classification</u>	<u>CAS</u>	<u>Exposure</u>
Sodium Perborate, monohydrate	40-60	O; R8 X _n ; R22 X _i ; R36/38	10332-33-9	None assigned (OES).

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

(3) HAZARDS INFORMATION

Irritating to eyes.
 Harmful to aquatic organisms.

(4) FIRST AID MEASURES

<u>Exposure</u>	<u>Symptom</u>	<u>Treatment</u>
INHALATION	Irritation to mucous membranes.	Remove to fresh air. Seek medical advice if symptoms persist.
SKIN CONTACT	Mild irritation under moist conditions.	Remove contaminated clothing. Drench skin with water.
EYE CONTACT	May cause strong irritation.	Rinse thoroughly with clean water or buffered eyewash for 15 minutes. Obtain immediate medical attention.
INGESTION	Irritation to mouth, throat, and stomach lining. Nausea.	Do NOT induce vomiting. Drink plenty of water, if conscious. Obtain medical attention.

(5) **FIRE FIGHTING MEASURES**

Suitable extinguisher: Water, foam.

Special precautions: Product may release oxygen during thermal decomposition (e.g. when involved in a fire), which assists combustion.

Special Protective equipment: Fire-fighting personnel are required to wear self-enclosed breathing apparatus and protective clothing in the event of a fire involving Perasafe, since acetic acid, borates, cyclic amine tars, CO_x and/or NO_x may be generated.

(6) **ACCIDENTAL RELEASE PROCEDURES**

Personal precautions: Wear suitable protective clothing (see section 8).

Environmental precautions: Do not dispose of into drains or water courses. Small quantities, However (<1kg), may be diluted to waste, via a treatment facility (e.g foul sewer), with large quantities of water. Observe local environmental regulations.

Methods for cleaning Up: Sweep up carefully to avoid excessive dust release. Keep product dry during clean-up procedure, if possible. Place in suitable containers and prevent powder from becoming moist whilst awaiting disposal. Clean contaminated surfaces thoroughly with water.

(7) **HANDLING AND STORING**

Precautions during handling: Wear protective clothing (see section 8).

Handle with sufficient care to prevent dust release. Where significant dust formation occurs (e.g. when handling bulk quantities) the use of a suitable dust mask may be required (see section 8).

During handling or storage of the diluted product ensure adequate airflow to prevent the build-up of nuisance vapours. Always consider Occupational Exposure Limits (see section 8).

Storage: Keep dry at all times. Keep container closed to avoid ingress of moisture and contamination. Store at temperatures not exceeding 30°C.

(8) **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering measures: Not required under normal circumstances.

Control**parameters:** (Applies to diluted product only)Hydrogen Peroxide:OES Short-term exposure limit 2ppm/2.8mg.m⁻³ (15 minute exposure period).OES Long-term exposure limit 1ppm/1.4mg.m⁻³ (8-hour TWA reference period).Acetic acid:OES Short-term exposure limit 15ppm/37mg.m⁻³ (15 minute exposure period).OES Long-term exposure limit 10ppm/25mg.m⁻³ (8-hr TWA reference period).**Personal Protection****Respiratory:** None required under recommended directions for use.
Where use patterns involve the formation of considerable dusts or when dealing with large spills, respiratory protection in the form of a Dustmask (P₂ type) may be required.**Hand:** Rubber gloves, e.g. Marigold type GO1R.**Eye:** Safety glasses or goggles, to BS EN166 standard.**Skin:** Overalls may be required when handling bulk quantities or when dealing with large spills.

(9) PHYSICAL AND CHEMICAL PROPERTIES**Appearance/****odour:** Powder: Off-white to pale blue, free flowing. Characteristic organic odour.
Solution: Faint peracetic acid odour.**pH (16.2g/litre,
35°C):** ca. 8.0**Oxidising
properties:** Not oxidising**Boiling point/
range:** Decomposes on heating**Flash point:** Not applicable**Solubility
(35°C):** Approx. 35g/litre maximum

(10) STABILITY AND REACTIVITY**Stability:** Stable under dry conditions at room temperature.**Conditions
to avoid:** Moisture ingress to powder.
High temperatures >40°C.

Materials

to avoid: Strong acids and alkalis.
Metal salts.
Reducing agents.

Hazardous decomposition

products: During thermal decomposition product will degrade to form:
Acetic Acid.
Oxygen.
Borates.
Hydrogen peroxide.
Oxides of carbon.
Oxides of nitrogen.

(11) TOXICOLOGICAL INFORMATION**Test Data**

Skin irritation: Non irritant (powder and solution (16.2g/l))

Eye irritation: Irritant to eyes (solution 16.2g/l)

Acute oral toxicity: Not harmful.

Human experience:

Powder.
Contact with moist powder can cause mild irritation to skin, and in contact with eyes causes strong irritation. Dusts of the product can cause irritation of mucous membranes in the mouth, nose and throat if significant amounts are inhaled.

Diluted product (16.2g/l).
Eye contact with splashes of the diluted product causes strong irritation. Vapours formed by in-use dilutions are produced at a very low rates, but if allowed to accumulate significantly (e.g. in a small, poorly ventilated storage cupboard) exposure may cause mild irritation to the eyes, and if inhaled, may cause mild irritation to the nose a throat.

(12) ECOLOGICAL INFORMATION

Persistence & 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.

Peracetic acid formed in the diluted product degrades to oxygen, acetic acid and water.

Bio-accumulation: Not noted.

Aquatic toxicity: Harmful to aquatic organisms.

(13) **DISPOSAL CONSIDERATIONS****Disposal of**

product (UK): Dispose of as Special Waste in accordance with The Special Waste Regulations 1996. Observe local restrictions.

Disposal of

packaging (UK): Dispose of in compliance with The Environmental Protection (Duty of Care) Regulations 1991. Observe local restrictions.

(14) **TRANSPORT INFORMATION**

U.N. Number: Not assigned.

UK Road

(CDG-CPL2): Not classified.

Sea (IMDG): Not classified.

Road/Rail

(RID/ADR): Not classified.

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. The product is controlled under the Medical Devices Directive (CD 93/42/EEC) and subsequently must not be used in a manner inconsistent with the instructions provided by the manufacturer.

Symbol:Irritant X_i**Irritant**

R-Phrases: R36: Irritating to eyes
R52: Harmful to aquatic organisms

S-Phrases: S22: Do not breathe dust
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

(16) **OTHER INFORMATION****Uses:** Medical device sterilant.**Further product information:**

Consult Perasafe technical leaflet for further information.

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 by ingestion.
R36/38	Irritating to eyes and skin.

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 performance.

Revision: D**Date:** 14th July 2004**Replaces:** C, dated 4th January 2001**EMERGENCY TELEPHONE NUMBER (UK):** 01787 377305