



SAFETY DATA SHEET

TOTAL

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Issued: 27/03/06

Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: TOTAL

Use / description of product: Virus eradicator.

Company name: Unicorn Chemicals Ltd

Unicorn House

Mowbray Drive

Blackpool

Lancashire

FY3 7UN

Tel: 01253 396101

Fax: 01253 302895

2. COMPOSITION / INFORMATION ON INGREDIENTS

- Hazardous ingredients:** IODINE 1-10%
EINECS: 231-442-4 CAS: 7553-56-2
[Xn] R20/21; [N] R50
- ORTHOPHOSPHORIC ACID 1-10%
EINECS: 231-633-2 CAS: 7664-38-2
[C] R34
 - SULPHURIC ACID 1-10%
EINECS: 231-639-5 CAS: 7664-93-9
[C] R35
 - NONIONIC SURFACTANTS 1-10%
[Xi] R36/38

3. HAZARDS IDENTIFICATION

Main hazards: Irritating to eyes and skin.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: The eyes may water profusely. There may be irritation and pain. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. There may be coughing and a sore throat.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

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Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. Get prompt medical attention.

Inhalation: Remove to fresh air. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: The product is non-combustible; appropriate extinguishing media for surrounding area should be used in fire situations.

Exposure hazards: Toxic or irritating fumes may be released at elevated temperatures.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using sufficient appropriate absorbent material.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Do not mix with other chemicals. Keep away from carbohydrate foods.

Storage conditions: Store between 0 and 35 Deg.C. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: IODINE

WEL (8 hr exposure limit): 1.1 mg/m³

- ORTHOPHOSPHORIC ACID...100%

WEL (8 hr exposure limit): 1 mg/m³ WEL (15 min exposure limit): 2 mg/m³

- SULPHURIC ACID...100%

WEL (8 hr exposure limit): 1 mg/m³

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: If Workplace Exposure Limit(s) listed above are exceeded, respiratory protection may be required.

Hand protection: PVC or rubber gloves.

Eye protection: Safety goggles.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC.

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9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid
Colour: Dark brown
Odour: Iodine (slight).
Solubility in water: Soluble
Relative density: 1.095
pH: 1.0

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Materials to avoid: Prolonged contact with metals can produce hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: IODINE
ORL MUS LD50 22 gm/kg
ORL RAT LD50 14 gm/kg
SCU RAT LD50 10500 mg/kg

- ORTHOPHOSPHORIC ACID...100%
ORL RAT LD50 1530 mg/kg
- SULPHURIC ACID...100%
ORL RAT LD50 2140 mg/kg

Routes of exposure: May cause irritation of skin, eyes, nose and upper respiratory tract.

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.
Persistence and degradability: Not biodegradable.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Contact Unicorn Chemicals Ltd to arrange disposal.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

| | |
|---|--------------------------------|
| UN no: 1760 | ADR Class: 8 |
| Packing group: III | Classification code: C9 |
| Shipping name: CORROSIVE LIQUID, N.O.S. (ORTHOPHOSPHORIC ACID...100%; SULPHURIC ACID...100%) | |
| Labelling: 8 | Hazard ID no: 80 |

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**IMDG / IMO**

| | |
|----------------------------|---------------------|
| UN no: 1760 | Class: 8 |
| Packing group: III | EmS: F-A,S-B |
| Marine pollutant: . | Labelling: 8 |

IATA / ICAO

| | |
|---------------------------|--|
| UN no: 1760 | Class: 8 |
| Packing group: III | Packing instructions: 818(P&CA); 820(CAO) |
| Labelling: 8 | |

15. REGULATORY INFORMATION**Hazard symbols:** Irritant.**Risk phrases:** R36/38: Irritating to eyes and skin.**Safety phrases:** S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This product belongs to Hazard Groups A and S under the HSE COSHH Essentials guidelines. (Publication HSG193).

Always use in accordance with manufacturer's directions.

This safety data sheet is prepared in accordance with EC Directive 2001/58/EC.

Risk phrases used in s.2: R20/21: Harmful by inhalation and in contact with skin.

R50: Very toxic to aquatic organisms.

R34: Causes burns.

R35: Causes severe burns.

R36/38: Irritating to eyes and skin.

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Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.