

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING****Product name: SOLATERRA****Product code: AS 30****Use of substance / preparation: Acidic cleaner for badly stained and soiled stone floors.****Company name: Bio-Productions Ltd**

72 Victoria Road

Victoria Industrial Estate

Burgess Hill

West Sussex

RH15 9LH

**Tel: 0044 (0) 1444 244000**

Fax: 0044 (0) 1444 244999

Emergency Contact Number: 0044 (0) 1444 244000 - Office Hours Only

Email: technical@bio-productions.com

**2. HAZARDS IDENTIFICATION****Main hazards: Irritating to eyes and skin.****3. COMPOSITION / INFORMATION ON INGREDIENTS****Hazardous ingredients: FATTY ALCOHOL ETHOXYLATE 1-5%**

CAS: 68439-46-3

[Xn] R22; [Xi] R41

**• ORTHOPHOSPHORIC ACID 15-30%**

EINECS: 231-633-2 CAS: 7664-38-2

[C] R34

**4. FIRST AID MEASURES (SYMPTOMS)****Skin contact: There may be irritation and redness at the site of contact.****Eye contact: There may be irritation and redness. The eyes may water profusely.****Ingestion: There may be soreness and redness of the mouth and throat.****Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.****4. FIRST AID MEASURES (ACTION)****Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.****Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.****Ingestion: Wash out mouth with water. In case of ingestion drink teaspoon or more of magnesia, chalk or whiting in water and obtain medical advise immediately.****Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.**

# SAFETY DATA SHEET

Issued: 12/07/2007

SOLATERRA Page 2

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**Exposure hazards:** In combustion emits toxic fumes.

**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:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. 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 bunding.

**Clean-up procedures:** Small spills can be handled with a mop and water. Large spills should be contained with sand or sawdust and disposed of under local authority regulations.

## 7. HANDLING AND STORAGE

**Handling requirements:** Avoid direct contact with the substance.

**Storage conditions:** Store in cool, well ventilated area. Protect from freezing. Keep container tightly closed.

Recommended shelf life of 12 months(1 year) when stored at or below 25 deg C in the original unopened containers.

**Suitable packaging:** Must only be kept in original packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hazardous ingredients:** ORTHOPHOSPHORIC ACID...100%

WEL (8 hr TWA): 1 mg/m<sup>3</sup> WEL (15 min STEL): 2 mg/m<sup>3</sup>

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

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Liquid

**Colour:** Colourless

**Odour:** Characteristic odour

**Evaporation rate:** Negligible

**Solubility in water:** Miscible in all proportions

**Viscosity:** Non-viscous

# SAFETY DATA SHEET

Issued: 12/07/2007

SOLATERRA Page 3

**Flash point°C: N/A**

**Relative density: 1.118**

**pH: 1.0**

## 10. STABILITY AND REACTIVITY

**Stability: Stable under normal conditions.**

**Conditions to avoid: Heat.**

**Materials to avoid: Bases. Sodium Hypochlorite Avoid mixing with any other chemical.**

**Haz. decomp. products: In combustion emits toxic fumes.**

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients: ORTHOPHOSPHORIC ACID...100%**

ORL RAT LD50 1530 mg/kg

**Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.**

## 12. ECOLOGICAL INFORMATION

**Hazardous ingredients: FATTY ALCOHOL ETHOXYLATE**

DAPHNIA 48H EC50 5-25 mg/l

FISH RAINBOW TROUT 96H LC50 10-100 mg/l

**Mobility: Readily absorbed into soil.**

**Persistence and degradability: Biodegradable. The mentioned surfactants comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.**

**Bioaccumulative potential: No bioaccumulation potential.**

**Other adverse effects: Negligible ecotoxicity.**

## 13. DISPOSAL CONSIDERATIONS

**Disposal operations: Consult local regulations for 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: 1805 ADR Class: 8**

**Packing group: III Classification code: C1**

**Shipping name: PHOSPHORIC ACID, LIQUID**

**Labelling: 8 Hazard ID no: 80**



# SAFETY DATA SHEET

Issued: 12/07/2007

SOLATERRA Page 4

## IMDG / IMO

**UN no: 1805 Class: 8**

**Packing group: III EmS: F-A,S-B**

**Marine pollutant: NO**

**Labelling: 8**

## IATA / ICAO

**UN no: 1805 Class: 8**

**Packing group: III**

**Packing instructions: 819(P&CA); 821(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.**

S24/25: Avoid contact with skin and eyes.

S37/39: Wear suitable gloves and eye / face protection.

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

S28: After contact with skin, wash immediately with plenty of water.

**Haz. ingredients (label): ORTHOPHOSPHORIC ACID...100%**

**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: Non-ionic surfactants - less than 5%**

Phosphates - 5% - 15%

Contains: Phosphoric Acid

Note: Changes made to Sections 1,2,3,7 and 12 as part of revision 2.

**Risk phrases used in s.3: R22: Harmful if swallowed.**

R41: Risk of serious damage to eyes.

R24: Causes harm

## SAFETY DATA SHEET

Issued: 12/07/2007

SOLATERRA Page 5

**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.