

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**Product name: SOLASIL****Product code: AS 8****Use of substance / preparation: Heavy duty degreaser / stripper****Company name: Bio-Productions Ltd**

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2. HAZARDS IDENTIFICATION**Main hazards: Causes burns.****3. COMPOSITION / INFORMATION ON INGREDIENTS****Hazardous ingredients: SODIUM METASILICATE, PETAHYDRATE 5-15%**

EINECS: 229-912-9 CAS: 10213-79-3

[C] R34; [Xi] R37

• ETHYLENE DIAMINE TETRA-ACETIC ACID TETRASODIUM SALT 0-1%

CAS: 64-02-8

[Xi] R36/38

• FATTY ALCOHOL ETHOXYLATE 1-5%

CAS: 68439-46-3

[Xn] R22; [Xi] R41

• 3-BUTOXYPROPAN-2-OL 5-15%

EINECS: 225-878-4 CAS: 5131-66-8

[Xi] R36/38

• PROPAN-2-OL 5-15%

EINECS: 200-661-7 CAS: 67-63-0

[F] R11; [Xi] R36; [-] R67

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 pain. May cause permanent damage.****Ingestion: There may be soreness and redness of the mouth and throat. Corrosive burns may appear around the lips. Nausea and stomach pain may occur.**

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

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

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

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

5. FIRE-FIGHTING MEASURES

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

Exposure hazards: Corrosive. 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: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. 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. Whilst small spillages of less than 5 litres of product can easily be disposed of by Sewer system, large discharges into the water courses must be reported to the Environmental Agency or other appropriate regulatory body as required by law. (Refer also to section 13 of the safety data sheet).

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. Ensure there is sufficient ventilation of the area.

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: PROPAN-2-OL

WEL (8 hr TWA): 999 mg/m³ WEL (15 min STEL): 1250 mg/m³

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

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

[cont...]

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Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Characteristic odour

Evaporation rate: Slow

Solubility in water: Miscible in all proportions

Also soluble in: Most organic solvents.

Viscosity: Non-viscous

Flash point°C: 41 Not combustable

Relative density: 1.082

pH: 13.2

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

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

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: SODIUM METASILICATE, PETAHYDRATE

ORL RAT LD50 1280 mg/kg

• **ETHYLENE DIAMINE TETRA-ACETIC ACID TETRASODIUM SALT**

ORL RAT LD50 >2000 mg/kg

• **3-BUTOXYPROPAN-2-OL**

ORL RAT LD50 5660 µl/kg

SKN RBT LD50 3100 mg/kg

• **PROPAN-2-OL**

IVN RAT LD50 1088 mg/kg

ORL MUS LD50 3600 mg/kg

ORL RAT LD50 5045 mg/kg

SCU MUS LDLO 6 gm/kg

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

12. ECOLOGICAL INFORMATION

Hazardous ingredients: SODIUM METASILICATE, PETAHYDRATE

ALGAE 72H IC50 no data mg/l

[cont...]

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DAPHNIA 96H LC50 >247 mg/l

FISH 96H LC50 >2320 mg/l

• **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. Sodium metasilicate which is inorganic, will rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

Bioaccumulative potential: No bioaccumulation potential.

Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Disposal operations: The pH of the concentrated product is above the acceptable limits for direct discharge. Consult local regulations for disposal. Small amounts (less than 5 litres) of unwanted diluted product may be sewered for biological treatment. Larger volumes must be sent for disposal by an approved Waste Contractor.

Disposal of packaging: Do not use containers for other products. Packaging that can not be thoroughly cleaned should be disposed of as product waste.

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.

Labelling: 8 Hazard ID no: 80



IMDG / IMO

UN no: 1760 Class: 8

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

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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: Corrosive.

Risk phrases: R34: Causes burns.

Safety phrases: S1/2: Keep locked up and out of the reach of children.

S24/25: Avoid contact with skin and eyes.

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.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

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

Haz. ingredients (label): SODIUM METASILICATE, PETAHYDRATE

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: Anionic surfactants - 5% - 15%

Non-ionic surfactants - less than 5%

EDTA - less than 5%

Contains: Sodium Metasilicate, Isopropanol

Note: Changes made to Sections 1,2,3,6,7,12 and 13 as part of revision 3.

Risk phrases used in s.3: R34: Causes burns.

R37: Irritating to respiratory system.

R36/38: Irritating to eyes and skin.

R22: Harmful if swallowed.

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R41: Risk of serious damage to eyes.

R11: Highly flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

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.