

**SOLTECH**  
Health & Safety Data Information

**1) Identification of the substance and company**

**Product Name:** Bio-Sol Plus **Product Code :** BSP  
**Synonyms ( if any ):**  
**Supplied by:** SOLTECH,  
P.O. Box 442,  
North Shields,  
Tyne & Wear,  
NE30 2XR  
UNITED KINGDOM  
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**web:** [www.soltech.org.uk](http://www.soltech.org.uk)

**2) Composition & Information on Ingredients**

**Contains:** Enzymes on ethoxy tridecanol. Non ionic surfactants  
**Components which may be Hazardous:** In concentrated form, may provide irritation in users allergic to enzymes

**3) Hazards Identification**

Not considered dangerous when used as a detergent.  
Care should be taken if exposed to concentrate which may provide irritation in users allergic to enzymes.

**4) First Aid Information**

<b>Exposure Route</b>	<b>Symptom</b>	<b>Treatment</b>
<b><u>Inhalation:</u></b>	May cause minor irritation of respiratory tract	If subject is allergic give anti-histamine under medical advice. Remove to fresh air
<b><u>Skin Contact:</u></b>	Risk of dermatitis, if user allergic to enzymes	Bio-Sol Plus degrades skin. Remove clothing and wash before re-use. Rinse skin with water and apply hand cream.
<b><u>Eye Contact:</u></b>	Inflammation / redness	Irrigate with copious quantities of water for at least 10 minutes.
<b><u>Ingestion:</u></b>	Irritation of respiratory tract	Rinse mouth with water - do not drink. Do not induce vomiting. Consult a doctor for treatment as per standard detergent.
<b>Immediate Treatment / Antidote:</b>	Symptomatic treatment	
<b>Delayed Effects:</b>	Seek medical advice if symptoms persist	

**5) Fire Fighting Measures**

**Suitable Extinguishers:** Select medium, appropriate for other materials involved - water, dry powder, carbon dioxide  
**Unsuitable Extinguishers:** None  
**Hazardous Combustion Products:** None  
**Special Equipment for Fire Fighting:** Self contained breathing apparatus. Product may provide omissions of carbon monoxide by pyrolysis

**6) Accidental Release Measures**

**Safety Precautions:** Avoid prolonged skin contact  
**Environmental Precautions:** Collect with absorbents, if possible. Dilute with water, if escape to water course imminent.  
Conforms with EC 91/155  
**Clean up Procedure:** Collect into plastic containers or absorbents. Wash spillage area with water

**7) Handling & Storage**

<b><u>Handling:</u></b> Avoid contact with eyes and inhalation	<b><u>Ventilation:</u></b> Good, general ventilation
<b><u>Storage:</u></b> Keep dry	<b><u>Temperature Range:</u></b> 5°C - 60°C
<b>Keep Away From:</b>	Acids
<b>Suitable Storage Media:</b>	Plastic or glass

**8) Exposure Controls / Personal Protection**

**Respiratory:** Wear mask when spraying diluted product in a confined space.  
**Hand:** Wear gloves for contact with concentrate and long term contact with product in solution.  
**Eye:** Wear goggles, if exposed to spray during spraying in confined areas.  
**Skin:** Wear protective overalls if exposed to large quantities of concentrate. Wash before re-use.  
**Hygiene Measure:** If subject is allergic to enzymatic detergents and reacts to Bio-Sol Plus, obtain medical advice  
Protection is required when spraying solution in a confined or poorly ventilated space.  
Mask and goggles are not necessary for operational use, as instructed.  
Rinse all traces if used on food preparation surfaces.

### 9) Physical & Chemical Properties

<b>Appearance:</b>	Blue liquid
<b>Melting Point / Range:</b>	Not applicable
<b>Oxidising Properties:</b>	None
<b>Relative Density:</b>	
<b>Solubility in Water:</b>	Dissolves in water
<b>Solubility in Solvent:</b>	Not applicable
<b>Decomposition Temperature:</b>	Active matter enzymes decompose @ 60°C
<b>pH:</b>	9 -9.5 concentrated solution

### 10) Stability & Reactivity

<b>Known Hazardous Reactions:</b>	None
<b>Materials to Avoid:</b>	Acids and strong alkalis
<b>Hazardous Decomposition Products:</b>	None in normal use

### 11) Toxicological Information

**Effects:** May cause superficial skin irritation and may cause irritation to eyes. When activated with water, will break down molecular structure of hydrocarbon chains. Will degrease skin. May provoke allergies in subjects sensitive to enzymes or standard detergents.

### 12) Ecological Information

<b>Environmental Effects:</b>	Degrades hydrocarbons. Will boost activity of biological waste treatment plant
<b>Degradability:</b>	>90% degradable in water
<b>Aquatic Toxicity:</b>	High concentrations may injure fish due to pH and may provide nutrients for plant growth. Conforms with EC / 91 / 155

### 13) Disposal Considerations

<b>Substance:</b>	Do not activate concentrate by adding water. Collect for re-use as directed or mop up with inert absorbents to dispose in accordance with local waste disposal regulations. Surplus product may be flushed to drain with water - it will enhance the activity of waste treatment plants.
<b>Container:</b>	Plastic or glass

### 14) Transport Information

Not assigned in :  
The Road Traffic (Carriage of Dangerous Substances in Road Tankers and Tank Containers) Regulations  
The Road Traffic Carriage of Dangerous Substances in Packages Regulations

### 15) Regulatory Information

<b>Supply Label Details:</b>	Manufacturer's classification
<b>Label Name:</b>	<b>Bio-Sol Plus</b>
<b>Symbols:</b>	None
<b>Risk Phrases:</b>	None
<b>Safety Phrases:</b>	Do not mix with acids. Keep out of reach of children. In case of contact, wash skin and eyes with water

### 16) Other Information

This product is to be used as a detergent for the degradation of organic waste - primarily fats, grease, and starches on hard surfaces and soil.

Revision date: 26/06/01

Active ingredients (enzymes) are activated by water - dilute at least 1 part Bio-Sol Plus to 100 parts water for efficient use. Read label before opening container. Do not mix with chemical cleaners or with water above 60°C as this will impair effectiveness

The above information is based upon the state of our knowledge of the product at the time of writing as supplied by the manufacturer. No warranty is implied with respect to the quality or the product. The user should satisfy himself that the product is entirely suitable for the intended use.