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**MATERIAL SAFETY DATA SHEET**  
**PRODUCT**  
**BIO-CLEAN**

**1. DESCRIPTION / PROPERTIES (nature, reactivity):**

Fully water soluble multi surface cleaner concentrate containing a blend of very low toxicity surfactants and non-pathogenic bacterial cultures, designed to emulsify and digest animal and vegetable fats, proteinaceous wastes, celluloses and starches. Bio Clean is designed to be used as a multi-surface cleaner. Regular use significantly reduces solids accumulation in pipework and drainage systems and eliminates unpleasant and obnoxious odours.

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Non pathogenic organisms – Class 1 (European Federation of BioTechnology)

**HAZARDOUS COMPONENTS CONCENTRATION HAZARD RISK PHRASES WEL**

Anionic surfactants <5% Xn R22, 36/38 -

Nonionic surfactant <2% Xi R36 -

Perfume <0.5% N, Xi R10, 38, 43,  
51/53, 65

-

Preservative 0.01% N, Xn R22, 38, 41, 43,  
50

-

**3. HAZARD IDENTIFICATION**

**a) Fire/Explosion Hazard (stability, flammability, combustion products):**

Not classified as flammable or combustible material. Aqueous suspension.

**b) Health Hazard (inhalation, ingestion, contact with skin or eyes):**

Not classified as hazardous for use. May cause irritation on prolonged or repeated skin contact. As with all surface-active chemicals, care should be taken to avoid prolonged skin contact. Low risk from inhalation.

Low order of acute oral toxicity but do not ingest.

**c) Environmental Hazard:**

Not classified as hazardous to the environment.

**4. FIRST AID MEASURES**

**INHALATION** - Very low risk in normal usage since product is non-volatile. In cases of respiratory

distress, remove patient to fresh air, rest and keep warm.

**SKIN CONTACT** Avoid unnecessary contact and keep away from broken skin or open wounds. Wash

thoroughly all affected areas with soap and water. Remove contaminated clothing and launder before re-use. Wash hands before eating or drinking.

**EYE CONTACT** - Irrigate with plenty of clean running water. Seek medical attention if irritation persists.

**INGESTION** - Do not swallow, rinse out mouth with water. Do not induce vomiting. If swallowed in

quantity seek medical attention as a precautionary measure. Material may cause stomach disorder. Irritation of the mouth, pharynx oesophagus and stomach can develop following significant ingestion.

## 5. FIRE FIGHTING MEASURES

### **Suitable extinguishing media:**

Since the product is not combustible or flammable, if involved in a fire, use extinguishing media appropriate to the source of the fire.

### **Protection for fire fighters:**

Wear self-contained breathing apparatus. Wear protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions:**

Mark contaminated area with signs and prevent access to unauthorised personnel.

### **Environmental Precautions:**

Product is not environmentally hazardous, on the contrary it favours digestion of oils and greases in sewers and waste water treatment facilities.

### **Clean up Procedures:**

Disperse spillages with large excess of water.

## 7. HANDLING AND STORAGE

### **Handling:**

After handling wash hands with soap and water.

### **Storage:**

May be stored for periods over six months in plastic containers as supplied. Avoid temperatures above 45 oC and protect from frost.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Provide eyewash station

**Personal Protection: Hand:** Use of rubber gloves recommended.

**Eyes:** Use of safety glasses recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C - 1.00

Vapour Pressure at 20°C - Essentially water vapour.

Solubility in water at 20°C - Completely Miscible

pH Value - 7.5 - 9.0

Flash Point - None Measurable.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials to avoid:** Avoid contact with strong oxidisers. Strong acids or alkalis may render the product inactive.

**Hazardous decomposition products:** None known

## 11. TOXICOLOGICAL INFORMATION

### **Health Effects:**

**Respiratory:** Not likely to occur.

**Skin:** May cause irritation on prolonged or repeated skin contact.

**Eyes:** May cause irritation.

**Ingestion:** Low acute toxicity. May cause irritation to mucous membranes in mouth, throat, stomach and intestinal canal. Contains non-pathogenic bacterial cultures.

## **12. ECOLOGICAL INFORMATION**

### **Degradability:**

All components are readily biodegradable.

### **Bioaccumulation:**

Bio-Clean

No bioaccumulation is expected. The product is biodegradable and water-soluble.

The surfactants contained in this preparation comply with biodegradability criteria as laid down in Regulation (EC) 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.

## **13. DISPOSAL CONSIDERATION**

**Disposal methods:** Disperse small spillages with large excess of water. Return unwanted material to the supplier.

## **14. TRANSPORT INFORMATION**

Not classified as dangerous for transport.

## **15. REGULATORY INFORMATION**

Not classified as hazardous for use.

### **Regulatory Information:**

**UK Regulatory References:** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

EH40/2005: Workplace Exposure Limits 2005.

**EC Directives:** Dangerous Preparations Directive (1999/45/EC).

Safety Data Sheets Directive (2001/58/EC).

**Approved Code of Practice:** The Compilation of Safety Data Sheets.

## **16. OTHER INFORMATION**

### **PLEASE NOTE:**

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.