



MATERIAL SAFETY DATA SHEET

According to 1907/2006 EC, Article 31

Greenhouse Cleaner

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

- 1.1 Identification of the Substance or Preparation:** Greenhouse Cleaner
- 1.2 Intended use of the Substance/Preparation:** Liquid formulation containing naturally occurring bacteria, biodegradable surfactants and biostimulants. Multipurpose cleaning and odour control product.
- 1.3 Company/Undertaking Identification:** Enviro-Works Europe Limited
PO Box 401
Leatherhead
Surrey.
KT22 2GG
UK
- 1.4 Emergency Telephone Number:** Tel: +44 (0) 844 879 7504
Email: info@enviro-works.co.uk

2. HAZARDS IDENTIFICATION

Most Important Hazards: The preparation is not classified as dangerous according to the criteria laid down in Council Directive 1999/45/EC.

Most Important Adverse Human Effects: None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substances

Chemical/trade name	Quantity %	Symbols	R phrase	CAS No.	EINECS, ELINCS
Non-ionic surfactant	1-5	Xn	22, 41	68439-45-2	N/A
Hydrogen Peroxide	<5	O, Xi	5, 8, 20/22, 35	7722-84-1	231-765-0

No other ingredient or substance carries any Risk Phrase according to Regulation (EC) 648/2004 for the purpose of classification. This preparation contains a selection of Class 1 bacteria (see Section 11)

4. FIRST-AID MEASURES

Exposure by inhalation: Remove victim to fresh air. Seek medical attention if symptoms occur.

Exposure by skin and Skin - Immediately wash affected area thoroughly with water. Seek medical attention if eye



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contact	irritation develops.
	Eyes: Immediately flush eyes with plenty of water and seek medical attention if irritation develops.
Exposure by ingestion:	Do not induce vomiting. Drink fluids to dilute. Seek medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water, foam, dry chemical or carbon dioxide extinguishers may be used.
Extinguishing Media not to be used:	None
Specific Exposure Hazards:	If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved.
Protective Equipment for Firefighters:	Full protective clothing and self-contained breathing apparatus should be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Evacuate personnel from immediate vicinity. Wear eye protection (e.g. goggles), chemical resistant gloves, protective clothing (e.g. an impervious apron) and a vapour mask conforming to standard EN405 FFA1. Refer to section 8.
Environmental Precautions:	Avoid excessive release to drains. It is not anticipated to be hazardous for environment.
Methods for Cleaning Up:	Stop the leak or release at source. Absorb spillages with a suitable inert material (e.g. sand or soil) or vacuum pump. Transfer the spillage to waste containers labelled in the same way as the original containers. Clean the spillage area with water and detergent. Small releases should not pose any hazard to the local environment.

7. HANDLING AND STORAGE

7.1 Handling:	
Precautions:	The substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure.
Technical Measures:	The use of gloves is recommended to reduce exposure to the preparation.
Specific Requirements:	None.
7.2 Storage:	
Specific design for	

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storage rooms or vessels:	None
Incompatible Materials:	Strong acids and alkalis. Do not store in metallic containers.
Conditions of Storage:	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Avoid freezing temperatures. Avoid temperatures above 45 °C to preserve biological stability.
Quantity Limits:	None
Packaging Materials:	Packaging can be recycled

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits	None known
Professional exposure control	None
Personal Protective Equipment:	The provision of personal protective equipment and the need to provide engineering control measures should be decided upon by the user as part of a formal exposure risk assessment. Based upon the available toxicological information the protective measures described below should be regarded as a minimum.
Respiratory Protection:	No special ventilation is usually necessary. However if operating conditions create high airborne concentrations of this material, based upon available information and in the absence of occupational exposure limits the use of an half mask to a minimum standard of EN405 FFA1P1 is recommended.
Hand Protection:	Avoid skin contact. Protective gloves to a Standard EN374 should be provided. Usage periods should not exceed the breakthrough times for the chemical stated by the manufacturer of the glove.
Eye Protection:	Care should be used to prevent eye exposure and eye protection should be used when handling the preparation. The protection should be capable of giving chemical protection as classified in BS2092 or EN166.
Skin Protection:	Avoid skin contact. In case of prolonged/frequent direct handling of the material it is recommended to wear protective clothing as classified by Standard NF EN 13034 (type 6).
Engineering Measures:	None
Specific Control Parameters:	None

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale green, viscous, opaque liquid
Odour:	soapy, floral
pH:	5.5 – 6.5
Boiling Point/Boiling Range:	Not applicable
Melting Point/Melting Range:	Not applicable
Flash Point:	Not determined
Flammability (Solid, Gas):	Not applicable
Autoflammability:	Not determined
Explosive Properties:	Predicted not explosive based on chemical structure.
Oxidising Properties:	Not determined
Vapour Pressure:	Not applicable
Specific gravity, g/cm ³ :	Approx 1.0 – 1.05 @ 25 °C
Solubility - Water solubility:	Dispersible
- Fat solubility:	Not determined
Other Data:	None available

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Excessive temperature variations, below 0°C or above 45 °C
Materials to Avoid:	Strong acids or alkali.
Hazardous Decomposition Products:	None anticipated

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxic effects

11.1.1	Ingestion, LD50 Rat oral (mg/kg):	Not determined
11.1.2	Inhalation, LC50 Rat inhalation (mg/l/4h):	Not determined
11.1.3	Skin, LD50 Rat dermal (mg/kg)	Not determined
11.1.4	Eye irritation	Not determined

11.2 Chronic toxic effects

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11.2.1 Sensitisation Not determined

12. ECOLOGICAL INFORMATION

Mobility: This preparation has high water solubility and relatively low vapour pressure. Therefore it is likely to distribute predominantly to the aqueous environment.

Biodegradability: The surfactants contained in this preparation 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. All other materials are readily biodegradable according to OECD test methods.

Accumulation: Not anticipated to bioaccumulate due to high water solubility and hence, biomagnification is not likely.

Ecotoxicity: The preparation is not anticipated to pose any environmental hazard. No data on toxicity specifically to soil organisms, plants and terrestrial animals are available.

Other adverse effects: There is no ozone depletion, photochemical ozone creation or global warming potential. Adverse effects in the sewage treatment plant are not anticipated.

13. DISPOSAL CONSIDERATIONS

Waste from Residues: Dispose of by incineration, landfill or to drain in accordance with local regulations. Stack gases should be scrubbed.

Contaminated Packaging: Dispose of by incineration or landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

International Regulations

Land:	Not applicable.
Inland waterways:	Not applicable.
Sea:	Not applicable.
Air:	Not applicable.

UN classification number: None

Local Regulations: Any relevant local regulations concerning transport should be observed.

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15. REGULATORY INFORMATION

EC Regulations:	The preparation is not classified as "dangerous" and therefore the following labels according to the requirements of Council Directives 2001/59/EC and 1999/45/EC are necessary:
Symbols:	None
R-phrases:	None
S-phrases:	S24/25 "Avoid contact with skin and eyes" S37/39 "Wear suitable gloves and safety glasses"
	The preparation is not deemed 'hazardous' according to the requirements of Council Directive 2000/54/EEC

16. OTHER INFORMATION

Local Regulations:	Any relevant local regulations should be observed.
Explanation of R-phrases that appear in Section 3:	R5 Heating may cause an explosion R8 Contact with combustible material may cause fire R20/22 Harmful by inhalation and if swallowed R22 Harmful if swallowed R35 Causes severe burns R41 Risk of serious damage to eyes
Concentration Limits:	This preparation is intended for dilution at the point of application.
Microbial Classification	All bacteria contained in this preparation are designated Class 1 according to Council Directive 90/679/EEC (as amended by Council Directive 93/88/EEC) and all other recognised classification systems for micro-organisms.
REACH:	The raw materials used in this preparation have been pre-registered in accord with the requirements of REACH Regulation 1907/2006/EC
Further Information :	The information supplied in this Materials Safety Data Sheet is designed only for guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.