



ACTIMATIC LIQUID

50910091 ISSUE 4 CN3865

16th July 2007

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

- 1.1 Identification of the Substance or Preparation:** ACTIMATIC LIQUID
- 1.2 Intended use of the Substance/Preparation:** Aqueous liquid formulation of specialized, non-pathogenic bacterial cultures, enzymes and biodegradable surfactants.
- 1.3 Company/Undertaking Identification:** Wade International Ltd.
Third Avenue
Halstead
Essex
CO9 2SX
UK
Tel: 01787 475151
Fax: 01787 475579
tech@wade.eu
- 1.4 Emergency Telephone Number:** 01787 475151 (working hours)

2. HAZARDS IDENTIFICATION

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

Most Important Hazards: The preparation is not classified as dangerous according to the criteria laid down in EU Council Directives 67/548/EEC (Annex VI of Directive 2001/59/EC) and 1999/45/EEC.

Most Important Adverse Human Health Effects: None identified but contains enzymes that may cause allergic reaction.

2.2 Environmental Hazard: Highly water soluble. The preparation is not classified as dangerous for environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical/trade name	Quantity %	Symbols	R phrase	CAS No.	EINECS, ELINCS
Fatty acids ethoxylated	<5	Xn	R22, R36/38	68439-45-2	N/A
Sodium lauryl sulfate	<5	Xi	R36/R38	85586-07-8	287-809-4
Lipase	<5	Xn	R42	9001-62-1	232-619-9
Amylase	<5	Xn	R42	9000-90-2	232-565-6

4. FIRST-AID MEASURES

- 4.1 Exposure by Inhalation:** Remove victim to fresh air. Seek medical attention if symptoms occur.
- 4.2 Exposure by skin :** Immediately wash affected area thoroughly with water. Seek medical attention if irritation develops. Organisms used are non pathogenic but can cause infection when in contact with open wounds.

ACTIMATIC LIQUID

50910091 ISSUE 4 CN3865

16th July 2007

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- 4.3 Exposure by eyes contact:** Immediately flush eyes with plenty of water and seek medical attention if irritation develops.
- 4.4 Exposure by Ingestion:** Drink fluids to dilute. Seek medical attention.
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5. FIRE FIGHTING MEASURES

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

- 6.1 Personal Precautions:** Bulk spillages: evacuate personnel from immediate vicinity. Wear appropriate protective clothing (goggles, gloves and mask). Refer to section 8.
- 6.2 Environmental Precautions:** Avoid excessive release to drains. The product is designed to digest complex fat matters, grease, oils, cellulose, proteins and starch through enzymatic metabolism in the drainage system.
- 6.3 Methods for Cleaning Up:** Stop the leak or release at source. Contain liquid when possible to prevent further contamination of soil, surface water and ground water. Absorb spillages with a suitable inert material (e.g. sand or soil) or vacuum pump. Transfer the spillage to waste containers labeled 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.
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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 will reduce exposure to the preparation.
- Specific Requirements:** None.

7.2 Storage:

- Specific design for storage rooms or vessels:** None

ACTIMATIC LIQUID

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16th July 2007

Incompatible Materials:	Strong acids or alkali compounds may inactivate biological cultures. Avoid strong oxidising agents. 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

8.1 Exposure limits

VME 8h dusts =10 mg/m³ (particles of a diameter < 100µ) and 5 mg/m³ (particle of a diameter < 5µ)

8.2 Professional exposure control

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 a dust mask to a minimum standard of EN405 FFA1P1 is recommended.
Hand Protection:	Avoid skin contact chemical 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:	Engineering controls such as LEV are recommended to reduce exposure to the preparation.
Specific Control Parameters:	None

ACTIMATIC LIQUID

50910091 ISSUE 4 CN3865

16th July 2007

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	green
Odour:	Slight soapy
pH:	7.0-8.0
Boiling Point/Boiling Range:	100 °C
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:	Equivalent to water
Relative Density:	0.5-0.7 g/cm ³
Solubility:	Water solubility: 100% (aqueous product) Fat solubility: Not determined
Partition coefficient n-octanol/water:	Not determined
Other Data:	None available

10. STABILITY AND REACTIVITY

10.1 Conditions to Avoid:	Excessive temperature variations, below 0°C or above 45 °C
10.2 Materials to Avoid:	Strong acids or alkali and strong oxidising agents.
10.3 Hazardous Decomposition Products:	None anticipated

ACTIMATIC LIQUID

50910091 ISSUE 4 CN3865

16th July 2007

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 Local effects:

11.2.1 Skin irritation Not determined

11.2.2 Eye irritation Not determined

11.3 Sensitisation:

11.3.1 By skin contact Not determined.

11.3.2 By inhalation Not determined but contains enzymes that may cause allergic reaction.

The product is formulated using a range of micro-organisms specially selected from the natural environment and that are known to be non-pathogenic to humans, animals or plants. It is advised to cover open wounds when in use.

12. ECOLOGICAL INFORMATION

12.1 Mobility:

This preparation is highly dispersible in water and has a low vapour pressure. Therefore it is likely to distribute predominantly to the aqueous environment.

12.2 Biodegradability:

The preparation is expected to biodegrade rapidly. However no information on anaerobic biodegradation is available.

12.3 Accumulation:

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

12.4 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.

12.5 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.

12.6 Other information:

Class 1 micro-organisms selected from the natural environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste from Residues:

Dispose of by incineration, landfill or to drain in accordance with local regulations.

Stack gases should be scrubbed.

13.2 Contaminated Packaging:

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

Empty packaging can be recycled.

ACTIMATIC LIQUID

50910091 ISSUE 4 CN3865

16th July 2007

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.

15. REGULATORY INFORMATION

EC Regulations:

The preparation is not classified as "dangerous" according to the criteria laid down in EU Council Directives 67/548/EEC (Annex VI of Directive 2001/59/EC) and 1999/45/EEC.

Classification Proposal

Symbols: None Applicable

R-phrases: None

S-phrases: S2 Keep out of reach of children

S 20/21 Do not eat, drink or smoke when using

S 35 The product and its container must be disposed in a safe way

S 49 Keep only in its original container

Precautionary statement:

Contains enzymes that may cause allergic reaction.

Microbial classification

The preparation is not deemed 'hazardous' according to the requirements of Council Directive 2000/54/EEC. 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.

Labeling according to Regulation (EC) n° 648/2004 (Detergent): to be declared

COMPONENT	FUNCTION	QUANTITY (%)
Anionic agent	surfactant	<5
Not ionic agent	surfactant	<5
2-bromo-2-nitro-1,3-propanediol	Conservative agent	< 5
Benzisothiazolinone	Conservative agent	< 5
lipase	enzyme	< 5
amylase	enzyme	< 5

Local Regulations:

Any relevant local regulations should be observed.

ACTIMATIC LIQUID

50910091 ISSUE 4 CN3865

16th July 2007

16. OTHER INFORMATION

R phrases

R 22 Harmful by ingestion

R 36 Irritating to eyes

R 38 Irritating to skin

R 42 May cause sensitization by inhalation

Regulation (EC) n° 648/2004 (Detergent)

The surfactants contained in this preparation comply with the 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.

Miscellaneous

LEV: Local Exhaust Ventilation

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.