



SAFETY DATA SHEET

EC7M Bioact EC7M, Non Aerosol

According to Regulation (EC) No 1907/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	EC7M Bioact EC7M, Non Aerosol		
PRODUCT NO.	MCC-EC7ML, MCC-EC7MG, MCC-EC7MP, MCC-EC7MD		
SUPPLIER	MICROCARE CORPORATION 595 John Downey Drive New Britain, CT 06019 United States of America CAGE: OATV9 +1 860-827-0626 +1 860-827-8105 techsupport@microcare.com	MANUFACTURER	MICROCARE EUROPE BVBA Erasmuslaan 10 B-1804 Cargovil (Zemst) Belgium 0032 2 251 95 05 0032 2 759 80 27 techsupport@microcare.com

2 HAZARDS IDENTIFICATION

Irritating to skin. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xi;R38. R43. N;R50/53.

HUMAN HEALTH

See section 11 for additional information on health hazards.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
d-LIMONENE	227-813-5	5989-27-5	60-100%	R10 R43 Xi;R38 N;R50/53

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest EC Directives.

4 FIRST-AID MEASURES

GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if they are unconscious. Consult a physician for specific advice.

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

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SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS

HIGHLY FLAMMABLE!

SPECIFIC HAZARDS

Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. Containers can burst violently when heated, due to excess pressure build-up.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use protective gloves, goggles and suitable protective clothing. Do not smoke, use naked flames or other sources of ignition. Provide adequate ventilation.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dam and absorb spillages with sand, earth or other non-combustible material. Collect in containers and seal securely.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep containers tightly closed. Keep away from heat, sparks and open flame. Keep out of reach of children.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

EYE PROTECTION

Use eye protection. Wear approved chemical safety goggles where eye exposure is reasonably probable.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear liquid

EC7M Bioact EC7M, Non Aerosol

COLOUR	Colourless to pale yellow		
ODOUR	Characteristic Orange		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Not soluble in water.		
BOILING POINT (°C)	169-187 C / 340 - 372 F	VAPOUR DENSITY (air=1)	4.6
VAPOUR PRESSURE	1.6 mm Hg 20 C / 70 F	VOLATILE BY VOL. (%)	100
FLASH POINT (°C)	47 C / 117 F TCC (Tag closed cup).	AUTO IGNITION TEMPERATURE (°C)	235 C / 458 F
FLAMMABILITY LIMIT - LOWER(%)	0.7	FLAMMABILITY LIMIT - UPPER(%)	6.0

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

TOXIC CONC. - LC 50 4400 mg/l (rat)

TOXICOLOGICAL INFORMATION

This product has low toxicity. Only large volumes may have adverse impact on human health.

INHALATION

May cause irritation to the respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

INGESTION

May cause discomfort if swallowed. This product has low toxicity. Only large volumes may have adverse impact on human health.

SKIN CONTACT

Product has a defatting effect on skin. May cause skin irritation/eczema

EYE CONTACT

Irritating to eyes.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

ROUTE OF ENTRY

Skin and/or eye contact. Ingestion. Inhalation.

TARGET ORGANS

Skin. Eyes. Respiratory system, lungs.

MEDICAL SYMPTOMS

Skin irritation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

12 ECOLOGICAL INFORMATION**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

Rags and the like, moistened with flammable liquids, must be discarded into designated fireproof bucket.

EC7M Bioact EC7M, Non Aerosol**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	Terpine Hydrocarbons N.O.S. (d-Limonene)		
UN NO. ROAD	UN2319	ADR CLASS NO.	3 (F1)
ADR PACK GROUP	III	UN NO. SEA	UN2319
IMDG CLASS	3	IMDG PACK GR.	III
EMS	F-E, S-E	UN NO. AIR	UN2319
AIR CLASS	3	AIR PACK GR.	III

15 REGULATORY INFORMATION**LABELLING**

Irritant



Dangerous for the environment

CONTAINS d-LIMONENE**RISK PHRASES**

R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S24	Avoid contact with skin.
S37	Wear suitable gloves.
S57	Use appropriate containment to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

16 OTHER INFORMATION**REVISION COMMENTS**

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 21/05/2010**REV. NO./REPL. SDS** 3**GENERATED****SAFETY DATA SHEET STATUS**

Approved.

EC7M Bioact EC7M, Non Aerosol

DATE

May 20, 2009

RISK PHRASES IN FULL

R10	Flammable.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.