

1. Chemical product and company identification

Trade name: **bio-chem Bio-Circle L**



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Use of the preparation: cleaner and degreaser for use in Bio-Circle machines

2. Composition/information on ingredients

Chemical characteristics:
Water based product, containing micro-organism
Ingredient list (acc. to 648/2004/EC)
less than 5 %: non-ionic surfactants, perfumes

Dangerous ingredients:

Name	CAS-no.	Weight %	Labelling
Alcohol alkoxyate	--	1 - 2	Xn, R 22, R 38, 41

3. Possible risks

Preparation is classified as non-hazardous in the sense of directive 1999/45/EC

4. First aid measures

General instructions : change saturated clothing
In case of inhalation : remove the casualty into fresh air and keep him immobile
In case of skin contact : wash off with water and soap, cream.
After contact with eyes : rinse eyes thoroughly with water, consult physician
After ingestion : rinse out mouth with water and give plenty of water to drink
Summon physician. Swallowing could cause diarrhoea.

5. Fire-fighting measures

Suitable extinguishing media :all extinguishing media possible
Extinguishing media that must not be used :

6. Accidental release measures

Precautions for person : danger of skidding after spillage/leakage
Cleaning/Take-up-processes : take up residues with absorbent material, rinse with large quantities of water

7. Handling and storage

Handling:

Instructions for safe handling : keep containers tightly closed

Storage:

Requirements for storage rooms: protect against sub-zero temperatures

Storing temperature min . : 2°C Storing temperature max. : 30°C

VCI storage class : 12

8. Exposure controls / personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the OES or MEL-values, suitable breathing protection should be worn.

Ingredients with limiting values to be controlled : not indicated

Personal protective outfit:

Hand protection : wear protective gloves (EN 374) in case of longer lasting skin contact (f.e. made from nitrile, thickness: 0,4 mm, permeation time: 480 min)

General protection and hygienic measures: : Wash hands before break and after work. Remove contaminated clothing. Pay attention to the generally hygiene in the workplace instruction. Avoid contact with wounds.

Additional information on hand protection: No tests have been performed.

Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

9. Physical and chemical properties:

Form : liquid
Colour : uncoloured, cloudy
Odour : apple

Safety relevant data:

Boiling point : 98°C

Melting point : 0°C

Flash point :

Ignition temperature :

Explosion hazard

lower explosion limit : n.a.

upper explosion limit : n.a.

Density : ~ 0.99 g/ml

Solubility : soluble

pH value : ~ 8

Viscosity : n.a.

10. Stability and reactivity

Hazardous reactions : No hazardous reactions known.
Hazardous decomposition products : No hazardous decomposition products known.
Thermal decomposition : Stable up to boiling point.

11. Toxicological information

Toxicological effects : no data available
Sensitization : no data available
Further information : classification according to calculation procedure
Local effects : no irritation of eyes and skin known
The used micro-organism are non-pathogen bacteria of risk 1 acc. to BioStoffV 2000/54/EG, TRBA 466.
(Risk 1 = no risk for human beings and vertebrates, current state of art)

12. Ecological information

Behaviour in sewage plants : The surfactants in the product are > 90 % biodegradable.
Contains no phosphates. According to the recipe, contains no AOX.

13. Disposal considerations

Advises : Dispose of in compliance with federal, state and local environmental regulations. Take liquid to a sewage plant (consider pH-value).
EC disposal code no. for the preparation :
: 07 06 01
Wastes from manufacture, formulation, supply and use of fats, grease, detergents, disinfectants and cosmetics
Aqueous washing liquids and mother liquors
(The waste code are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.)
for contaminated packaging : 15 01 02 Plastic packaging

14. Transport information

Land transport : Dangerous goods regulations acc. to ADR/RID not applicable
Inland waterways transport : Dangerous goods regulations acc. to ADB/ADNR not applicable
Sea transport : Dangerous goods regulations acc. to IMDG/GGVSee not applicable
Aircraft transport : Dangerous goods regulations acc. to ICAO/IATA not applicable

15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC-Directives (67/548/EEC and 1999/45/EC)
Labelling : The product does not require a hazardous warning label in accordance with EC-regulations and the relevant national laws.
Hazard symbols : n.a.
National regulations
Water hazard class : 1 (self-classification acc. to VwVwS)
(German only) i.e. slightly hazardous to water
VOC 1999/13/EC : 0 %

16. Other information

Wording of the R-phrases specified in chapter 2 (not the classification of the preparation)
R 22: Harmful if swallowed
R 38: Irritating to skin
R 41: Risk of serious damage to eyes

This information is based on our present state of knowledge. They describe our product in view of the requirements for safety. They do not assure of certain properties of the product. A legal relationship is not vested. Duplication without changes of the original version is allowed.