

Safety data sheets

Vitalife™

1 Identification of substance

- Product details
- Trade name Vitalife
- Article number: H1000811000000
- Manufacturer/Supplier:
fleur ami GmbH
Hanns-Martin-Schleyer-Str. 33
47877 Willich
- Emergency information: Poison Control Center, Mainz
phone +49 (0) 61 31/19 240

2 Hazards identification

- Hazard designation: void
- Information pertaining to particular dangers for man and environment The product does not have to be labelled due to the calculation procedure of the „General Classification guideline for preparations of the EU“ in the latest valid version.
- Classification system The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- Chemical characterization
- Description: Mixture of the substances listed below with harmless additions (aqueous solution).

• Dangerous components:			
CAS: 5949-29-1			
EINECS: 201-069-1	citric acid monohydrate	Xi; R 36 2.	5-10%

- Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- General advice: No special measures required.
- After inhalation Provide fresh-air circulation. If symptoms continue, consult a doctor. In case of respiratory failure or breathing irregularities, commence resuscitation or oxygen inhalation and immediately consult a doctor. In case of unconsciousness, place und transport the patient in a recovery position.
- After skin contact In general the product does not cause skin irritation. Wash with soap and water.
- After eye contact Rinse opened eye for 15 minutes under running water. Consult a doctor in case of symptoms.
- After swallowing Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

5 Fire fighting measure

- Suitable extinguishing agents
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- For safety reasons unsuitable extinguishing agents Water with a full water jet.

- Protective equipment:
See section 8. Wear full protective suit with self-contained breathing apparatus.
- Additional information Endangered containers in the surrounding area should be cooled with a water-hose.

6 In case of accidental release

- Person-related safety precautions: Not required.
- Measures for environmental protection: Dilute with much water.
- Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
- Additional information: No dangerous materials are released.

7 Handling and storage

- Handling
- Information for safe handling: The usual good standards of industrial hygiene should be maintained.
- Information about protection against explosions and fires:
Pay attention to general rules of internal fire prevention.
- Storage Keep containers tightly closed. Store in cool, dry conditions.
- Requirements to be met by storerooms and containers: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with critical values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the compilation were used as basis.
- Personal protective equipment -General protective and hygienic measures
The usual precautionary measures should be adhered to in handling the chemicals.
Instantly remove any soiled and impregnated garments.
Avoid contact with the eyes.
Gases, fumes and aerosols should not be inhaled.
- Breathing equipment: Not required. -Protection of hands: Not required.
- Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses recommended during refilling.
- Body protection: Standard protective clothing. Chemical resistant safety-shoes or boots.
If skin contact is possible, wear impenetrable protective clothing against this solvent.

9 Physical and chemical properties:

• General Information	
Form:	Fluid
Colour:	Colourless
Smell:	Characteristic
• Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	100°C
• Flash point:	Product is non-flammable nor potentially explosive
• Self-inflammability:	Product is not selfigniting.
• Danger of explosion:	Product is not approx. potentially explosive.
• Vapour pressure at 20°C:	23 hPa
• Density at 20°C	1.17 g/cm ³
• Solubility in/Miscibility with Water:	Fully miscible
• pH-value at 20°C:	2

10 Stability and reactivity

- Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known
- Dangerous products of decomposition: No dangerous decomposition products known

11 Toxicological information

- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.
- Sensitization: No sensitizing effect known.
- Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information we have to hand.

12 Ecological information

- General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- Product:
- Recommendation A used product should be recycled or used in other contexts, otherwise be handed over to an appropriate disposal site.
- Waste disposal key number:
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially applicationrelated. The valid waste code number of the application can be obtained from the European waste catalogue.

- Uncleaned packagings: Disposal must be made according to official regulations.
- Recommendation: After complete emptying and cleaning, send to be reconditioned or recycled.
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning.
Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
- Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport regulations

- Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class: -
- Maritime transport IMDG/GGVSea:
IMDG/GGVSea Class: -
Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: -

- Transport/Additional information: Not dangerous according to the above specifications.

15 Regulations

- Designation according to EC guidelines: The product is not subject to classification according to the calculation methods of the „General Classification Guideline for Preparations of the EC“ as issued in the last version.
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV). Observe the normal safety regulations when handling chemicals
- National regulations
- Water hazard class: Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): slightly hazardous for water.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases
36 Irritating to eyes.
- Department issuing data specification sheet: see item 1: Informing department