

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1	Product identifier:	LIPOLYT® - TOI
1.2.1	Relevant identified uses of the substance or mixture:	biological detergent
1.2.2	Uses advised against:	No information.
1.3	Details of the supplier:	ABiTEP GmbH Glienicke Weg 185 12489 Berlin Germany Tel.: +49-(0)30-670570 info@abitep.de
1.4	Emergency Number:	+49 (0)30 19 240 (German Toxicology Center)

2. HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture:	Classification in compliance with Regulation 1272/2008 (CLP): not determined Classification in compliance with Regulation 67/548/EWG and 1999/45/EG: The mixture is non hazardous within the meaning of the Regulation 1999/45/EG
2.2	Label elements:	Labeling in compliance with regulation 1272/2008 (CLP): not determined Labeling in compliance with regulation 67/548/EWG and 1999/45/EG: not applicable
2.3	Other hazards:	None anticipated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Aqueous solution with microorganisms, enzymes and secondary alcohol. Anionic and nonionic surfactants (< 5%). Contains minor quantities of inorganic salts, food coloring and thickener.

4. FIRST-AID MEASURES

4.1	description of First-Aid Measures	
	Generally advices:	Remove contaminated clothing immediately. Appearance of health disorders: consult a doctor.
	Exposure by Inhalation:	Care for fresh air.
	Exposure by skin:	Immediately wash affected area thoroughly with soap and water. Seek medical attention if irritation develops.
	Exposure by eyes contact:	Immediately flush eyes with plenty of water and seek medical advice.
	Exposure by Ingestion:	Do not induce vomiting. Drink water to dilute. Seek medical advice.
4.2	Most important symptoms and effects, both acute and delayed:	No information.
4.3	Indication of any immediate medical attention and special treatment needed:	No information.



5. FIREFIGHTING MEASURES

- 5.1 Extinguishing Media:
 Appropriate extinguishing Media: CO₂, Water, foam
 Inappropriate extinguishing Media: No information.
- 5.2 Special hazards arising from substance or mixture:
 If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved
- 5.3 Advice for fire fighters:
 Self-contained breathing apparatus should be worn.
 Do not inhale explosion- and combustion gases.
- Avoid the flow off of the extinguishing water in surface- and groundwater as well as in soil. Waste disposal in compliance with administrative regulations.
- Wear suitable protective clothing to avoid skin exposure. Observe a safety distance.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:
 No special measures. Consider possible danger of slipping.
- 6.2 Environmental Precautions:
 Avoid areal extend.
- 6.3 Methods and material for containment and cleaning up:
 For great quantity: pump down the product
 For residue: put up beaten material with liquid binding material (sand) and collect it for disposal in compliance with administrative regulations.
 Small quantity (< 1 L): absorb with plenty of water, dispose of water in the canalization.
 For personal protection see chapter 8.
 No exposition of hazardous substances.
- 6.4 link to other chapters:
 See chapters 7, 8 and 13.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling:
 The substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure. 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
 Do not eat, drink and smoke during the work
 Consider operating instruction.
- 7.2 Conditions for safe storage, including any incompatibilities:
 The floor of the depot should be impermeable
 Product should only be kept in the original packaging. Product should be kept dry and protected of insolation.
 Keep containers tightly closed when not in use.
 Recommended storage temperature: 10 °C – 25 °C
- 7.3 specific end-application:
 No information.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1	Control parameters:	No substance with maximum allowable concentration.
8.2	Exposure control:	No allowable concentration.
	Appropriate engineering controls:	Sufficient ventilation
	Individual protection measures, such as personal protective equipment:	The substance should be handled under conditions of good industrial hygiene in dealing with chemicals. See chapter 7.
	Eye/ face Protection:	In danger of splash: use suitable safety glasses (EN 166).
	Skin Protection:	Necessary. Avoid contact with broken skin. In case of prolonged/frequent direct handling of the material it is recommended to wear chemical protective clothing.
	Hand Protection:	Necessary. Chemical protective gloves should be provided. Usage periods should not exceed the breakthrough times for the chemical stated by the manufacturer of the glove.
	Body Protection:	Protective work wear.
	Respiratory Protection:	No special ventilation is usually necessary.
	Exposure and control of environment:	See chapter 6 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties:	
	Appearance	liquid
	Colour	blue
	Odour	Aromatic – fresh
	Boiling Point/Boiling Range	Not determined
	Melting Point/Melting Range	105 °C
	Flash Point	n.a.
	Flammability (Solid, Gas)	n.a.
	Explosive Properties LEL	n.a.
	Explosive Properties EL	n.a.
	Vapour Pressure	n.a.
	Specific gravity	1,03 g/ccm
	Bulk density	n.a.
	Water solubility	complete
	pH-value	7,0 – 7,8
	partition coefficient	n.a.
	viscosity	10 - 30 Pa*s
	refraction index	n.a.
9.2	Other information	

10. STABILITY AND REACTIVITY

10.1	REACTIVITY:	The mixture was not tested.
10.2	Chemical stability:	No decomposition if stored and handled properly
10.3	Possibility of hazardous reactions:	No decomposition if stored and handled properly.
10.4	Conditions to avoid:	See chapter 7.
10.5	Incompatible materials:	Strong acids or alkali compounds may inactivate biological cultures. Temperature > 45 °C.
10.6	Hazardous decomposition products:	See chapter 5.3



11. TOXICOLOGICAL INFORMATION

11.1	Data to toxicological effects:	No toxicological results to this mixture.
	Acute toxicity:	No information available.
	Irritation:	Based on available data, not classified.
	Sensitisation:	Based on available data, not classified.
	Grave effects after repeated or longer exposition:	Based on available data, not classified.
	Carcinogenicity:	Based on available data, not classified.
	Germ cell mutagenicity:	Based on available data, not classified.
	Reproductive toxicity:	Based on available data, not classified.
	Specific effects in animal experimentation:	Based on available data, not classified.
	Other information:	Based on available data, not classified.
	Aspiration hazard:	Not relevant.

12. ECOLOGICAL INFORMATION

12.1	Toxicity:	No information available.
12.2	Persistence and Degradability:	Readily biodegradable in compliance with regulation DIN EN 29 408.
12.3	Bioaccumulative potential:	No information available.
12.4	Mobility in soil:	No information available.
12.5	results of PBT- and vPvB-evaluation:	No information available.
12.6	Other adverse effects:	No information available.

13. DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods:	See chapter 6.3. In compliance with administrative regulations.
	Disposal code of the product:	200130 detergents without detergents of 200129.
	Disposal code of contaminated packaging:	150102 packaging disposal

14. TRANSPORT INFORMATION

Land transport

ADR class	Not restricted	ADR item number	Not relevant
RID class	Not restricted	RID item number	Not relevant
Hazard identification no.	Not relevant	Substance identification no.	Not relevant
TREM – Card	Not relevant	UN Number	Not relevant
Proper shipping name	Not relevant	National regulations	

Sea transport

IMO/IMDG code	Not restricted	Class	Not restricted
Packing group	Not relevant	UN number	None
EMS	Not relevant	MFAG	Not relevant
Marine pollutant	No	Proper shipping name	Not relevant

Air transport

ICAO-TI/IATA-DGR		UN number	None
Class	Not restricted	Packing group	Not relevant
Proper shipping name	Not relevant		



15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

H – 317 - Can cause allergic skin reaction.

H – 319 - Can cause eye irritation.

P – 234 - Keep in original packaging.

P – 280 - Wear protective gloves.

P – 301 - If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

P – 303 - In case of touch with skin wash the concerned part with water.

P – 305 - In case of touch with the eyes purge with water and consult a doctor.

P – 391 - Wipe up spilled material.

All the bacteria contained in this formulation are of group 1 according to Directive 2000/54/EC (on the protection of workers from risks related to exposure to biological agents at work). Microorganisms from group 1 are unlikely to cause a human disease.

When handling the product, precautions described in Annex VI of Directive 2000/54/EC have to be taken into consideration in order to make a risk assessment.

Without risks for health of animals, plants and environment.

Water hazard classification 1 (self-evaluation)

16. OTHER INFORMATION

The information are based on our current knowledge and are no assurance of features.

The recipients of our products have to consider current laws and determinations on own responsibility.

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