



MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament
and the Council (REACH) and Commission Regulation (EU) No. 830/2015

Version: 1.0

Date of issue: 26.10.2017
Supersedes date: ---

DECOMPOSITION OF FATS – LIKVID^{Profi}

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name: DECOMPOSITION OF FATS – LIKVID^{Profi}

1.2 Relevant identified uses of the substance or mixture and uses advised against

Biological product for fat loss in waste systems, STP, foaming remover in sewage treatment plants.

1.3 Details of the supplier of the safety data sheet

SUBIO EKO s.r.o.
Odboje 3327/1a
702 00 Ostrava – Mor. Ostrava
Czech Republic

Tel.: +420 596 634 677
E-mail: subio@subio.cz

1.4 Emergency telephone number

Toxicology information centre, Na Bojišti 1, 128 21 Prague, Czech Republic, **Tel: +420 224 919 293 or +420 224 915 402 (non-stop service).**

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:
Eye irritation, Eye Irrit. 2, H319

2.2 Label elements

Hazard symbol:



Signal word: Warning

Standard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/ attention.

Contains: less than 5 % non-ionic surfactants, enzymes, perfumes.

2.3 Other hazards

No information available.



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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Ingredient	Conc. in w/w%	EC-Nr.	CAS-Nr.	Index-Nr.
propan-2-ol	<5	200-661-7	67-63-0	603-117-00-0
REACH RN: 01-2119457558-25-XXXX				

Classification according to Regulation 1272/2008/EC:

Flammable liquid, Flam.Liq. 2, H225

Eye Irritation, Eye Irrit. 2, H319

Specific target organ toxicity – single exposure, narcotic effects, STOT SE 3, H336

Substance with workplace exposure limits, see section 8.

alcohols C16-18, ethoxylated	<1	500-212-8	68439-49-6	---
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Classification according to Regulation 1272/2008/EC:

Acute toxicity (oral), Acute Tox. 4, H302

Serious eye damage, Eye Dam. 1, H318

Hazardous to the aquatic environment (acute), Aquatic Acute 1, H400

alcohols C12-15, ethoxylated	<1	500-195-7	68131-39-5	---
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Classification according to Regulation 1272/2008/EC:

Skin irritation, Skin Irrit. 2, H315

Serious eye damage, Eye Dam. 1, H318

Hazardous to the aquatic environment (acute), Aquatic Acute 1, H400

For full text of H-phrases see section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General information: In case of any health problems or if in any doubt, inform your doctor and provide him / her data from this Safety Data Sheet. In case of irregular breathing or breath stop, perform artificial respiration. In case of unconsciousness, place the affected person in a stabilized position on the side with a slightly bowed head and call the doctor. Do not give anything by mouth to unconscious person.

If inhaled: Ensure sufficient fresh air supply. In case of persistent problems, consult a physician.

Skin contact: Immediately wash the affected skin with warm water and soap, rinse thoroughly. In case of persistent problems, consult a physician.

Eye contact: Rinse under running water for a few minutes, hold eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. In case of persistent problems, consult a physician.

If ingested: Rinse mouth with water. Do not give anything by mouth. Do not induce vomiting. If the affected person vomits, avoid inhalation of vomits. Immediately seek medical advice and show the packaging or label of the product.

4.2 Most important symptoms and effects, both acute and delayed

In case of prolonged skin contact local irritation may occur. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.



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SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use any means of extinction appropriate for surrounding fire condition. Foam, carbon dioxide, dry extinguishing powder, scattered water stream are suitable.

Unsuitable extinguishing media: Not known.

5.2 Special hazards arising from the substance or mixture

The mixture is not flammable. In case of fire hazardous gases, carbon oxides, nitrogen oxides and other organic compounds can be released.

5.3 Advice for firefighters

Use self-contained breathing apparatus and protective clothing. Cool unopened containers in fire with a dispersed stream of water or, if possible, remove them from fire. Fire residues and used extinguishing media should not be disposed of via wastewater, sewage systems or water courses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. In case of a major leak, clearly mark the site of the accident and isolate it. Avoid entry of unprotected persons. Avoid contact with eyes and skin. Do not breathe vapours/ aerosols. Ensure effective ventilation of the contaminated area immediately.

6.2 Environmental precautions

Avoid leakage of the mixture or its solutions to surface or ground water and soil.

6.3 Methods and material for containment and cleaning up

Transfer the leaked mixture mechanically to a suitable rigid container such as a high pressure polyethylene bag. Contaminated surfaces should be cleaned with water, do not use solvents or thinners. If a large amount of a mixture is leaked, inform local competent authorities and at the same time ensure that the waste is disposed of by an authorized company.

6.4 Reference to other sections

See section 7 for handling, section 8 for personal protective equipment, section 13 for disposal.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Follow the instructions in the product data sheet and the instructions for use. Handle in accordance with good industrial, hygienic and safety procedures. Do not eat, drink or smoke while working. Avoid direct contact with eyes and skin and mucous membranes. Use appropriate personal protective equipment (see section 8). Ensure adequate ventilation. Always wash your hands after work and before the break.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated, dry place at temperatures up to 38°C. Store in original packaging or equivalent. Protect from heat, frost and direct sunlight. Do not store together with food, beverages and feed. Do not smoke in the warehouse.

7.3 Specific end use(s)

See section 1.2.



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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Czech Republic (Government Decree no. 361/2007 Sb. as amended): *Propan-2-ol*: long term 500 mg/m³ (200 ppm), short term 1000 mg/m³ (400 ppm), note I (causes irritation of mucous membranes (eyes, respiratory tract) and skin irritation).

DNEL (derived no effect level):

Propan-2-ol:

Workers, long-term, dermal: 888 mg/kg bw/day

Workers, long-term, inhalation: 500 mg/m³

Consumers, long-term, dermal: 319 mg/kg bw/day

Consumers, long-term, inhalation: 89 mg/m³

Consumers, long-term, oral: 26 mg/kg bw/day

PNEC (predicted no effect concentration):

Propan-2-ol:

Freshwater: 140,9 mg/l

Marine water: 140,9 mg/l

Freshwater sediment: 552 mg/kg

Marine sediment: 552 mg/kg

Soil: 28 mg/kg

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Observe general hygiene and safety precautions and use personal protective equipment. Ensure adequate ventilation in the workplace. Immediately dispose of contaminated clothing. Do not eat, drink or smoke while working. Before break and after work wash your hands thoroughly and treat your skin with a suitable repair product.

8.2.2 Individual protection measures, such as personal protective equipment

- a) **Eye/face protection:** If there is a risk of eye contact, use tightly fitting goggles or face shield.
- b) **Skin protection:** i) *Hand protection:* Use impermeable protective gloves when working permanently. In normal use, no hand protection is required.
ii) *Other:* Chemical resistant protective working clothing and footwear.
Before work (but not during work) treat your skin with suitable protective product.
- c) **Respiratory protection:** In case of inadequate ventilation or if the control parameters are exceeded, use an approved respirator. For short periods can be used gas masks with a suitable filter against organic vapours and solid particles.
- d) **Thermal hazards:** No information available.

8.2.3 Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (at 20°C):	dark green liquid
Odour:	mild perfumed
Odour threshold:	not determined
pH:	4,5-9,5



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Melting point/freezing point (°C):	not determined
Initial boiling point and boiling range (°C):	not determined
Flash point (°C):	not determined
Evaporation rate:	not determined
Flammability:	not determined
Upper/lower flammability or explosive limits:	not determined
Vapour pressure:	not determined
Vapour density:	not determined
Relative density:	not determined
Solubility(ies):	not determined
Partition coefficient n-octanol/water:	not determined
Auto-ignition temperature (°C):	not determined
Decomposition temperature:	not determined
Viscosity:	not determined
Explosive properties:	not determined
Oxidizing properties:	not determined

9.2 Other information

No information available.

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

The mixture is stable under normal conditions of use and the prescribed storage method for 24 months.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

See section 5.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	The classification criteria are not met.
<i>Propan-2-ol:</i>	
LD50, oral, rat:	>2000 mg/kg
LD50, dermal, rabbit:	>2000 mg/kg
Skin corrosion/ irritation:	The classification criteria are not met.
Serious eye damage/ eye irritation:	Causes serious eye irritation.
Respiratory/ skin sensitization:	The classification criteria are not met.
Carcinogenicity:	The classification criteria are not met.
Germ cell mutagenicity:	The classification criteria are not met.



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Reproductive toxicity:

The classification criteria are not met.

Specific target organ toxicity:

The classification criteria are not met.

Aspiration hazard:

The classification criteria are not met.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

The classification criteria are not met.

12.2 Persistence and biodegradability

The surfactants contained in this product comply with the biodegradability criteria of Regulation (EC) No. 648/2004 on detergents. The statements confirming this declaration are available to the competent authorities of the Member States at their direct request or at the request of the detergent manufacturer.

The final biodegradability of the surfactants of the mixture is > 60% in 28 days.

12.3 Bioaccumulative potencial

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This product does not contain any substance considered as PBT or vPvB according to REACH criteria.

12.6 Other adverse effects

The mixture is not dangerous for the environment, however prevent its penetration into surface and ground water and soil.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal of unused mixture should be in accordance with local and national regulations. Empty containers should be disposed of as waste. Disposal is carried out by a company that has the authority to handle waste.

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

Waste codes:

19 05 99 wastes not otherwise specified

15 01 06 mixed packaging

SECTION 14 TRANSPORT INFORMATION

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not regulated.



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14.5 Environmental hazards

Not regulated.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15 REGULATORY INFORMATION

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

Regulation of the European Parliament and the Council (EC) No. 1907/2006 (REACH).
Regulation of the European Parliament and the Council (EC) No. 1272/2008 (CLP).
Commission Regulation (EU) No. 830/2015, Regulation of the European Parliament and the Council (EC) No. 648/2004 on detergents.

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out.

SECTION 16 OTHER INFORMATION

Date of issue: 26.10.2017

Revision notes: none

Full text of H-phrases: **H225** Highly flammable liquid and vapour. **H302** Harmful if swallowed.
H315 Causes skin irritation. **H318** Causes serious eye damage. **H319** Causes serious eye irritation. **H336** May cause drowsiness or dizziness. **H400** Very toxic to aquatic life.

Note:

The safety data sheet contains data necessary for ensuring occupational health and safety and protection of the environment. The given data correspond to the current state of knowledge and experience and comply with valid legal regulations. The data cannot be considered a guarantee that the specific use of the product will be appropriate.