

SAFETY DATA SHEET
According to Regulation (EU) No. 1907/2006 and 2015/830.

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier

Product Name	UTF Gel (Imagel)
REACH registration number	Not required according to Article 2 (EC) No 1907/2006.
Product Number	UC-7355; R03-GEL1
Unique Formula Identifier (UFI)	Not required.

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

Product Uses	Sound conducting gel
Uses advised against	Uses other than those recommended

1.3 Details of the supplier of the safety data sheet

Supplier:	Manufacturer:
Tessonics Inc.	Tessonics Poland SP. Z. O. O.
597 Ouellette Avenue	Zatorska 78m.7 58-215
Windsor, Ontario	Wroclaw, Poland
Canada, N9A 4J3	tel: +48-603-51-81-50
Tel.: +1-866-440-3313	mk@tessonics.com:
Fax: +1-519-250-5747	

1.4 Emergency telephone number

Tessonics: +48-603-518-150 (Mon-Fri 7–15 CET).

Country based national emergency telephone numbers:

Czech Republic +420224919293; +420224915402	Germany	Mainz/ : + 49-6131-19240
France +33(0)145425959		Munich : +49-89-19240
Germany Berlin : +49-30-19240	Hungary	+36-80-201-199
Bonn : +49-228-19240	Poland	+48 42 2538 424; +48 42 2538 427
Erfurt : +49-361-730730	Portugal	808 250 250
Freiburg : +49-761-19240	Sweden	112; +46(0)10 456 6700
Göttingen : +49-551-383 180	The Netherlands	030-274-8888
Homburg : + 49-6841-19240	United Kingdom	NHS 111

SECTION 2: Hazards Identification
2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP). This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. However, a safety data sheet is being supplied for it upon request as it contains a substance for which there is a Union workplace exposure limit.

2.2 Label elements

Label according to Regulation (EC) No. 1272/2008. Not required.

Pictogram. Not required.

Hazard statement. Not required.

Precautionary statement: Not required.

Storage phrases: Not required. Refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Other hazards. None. For exposure limits, see Section 8.

SECTION 03: Composition /Information on ingredients

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3.2 Mixtures

This mixture does not meet the criteria for classification according Regulation (EC) No. 1278/2008.

Name of substance:	Identifiers	Classification (1272/2008, Dir. 67/548/EEC)	% [weight]
Glycerol*, USP Kosher	CAS # 56-81-5 EC # 200-289-5	Not classified	60-65

*Substance with national workplace exposure limit(s) (BE, CZ, ES, FI, FR, GB, GR, IE, IT, PL, PT).

For occupational exposure limits, see Section 8.

For LC/LD₅₀ information, see Section 11

Other components: Not applicable.

SECTION 04: First-Aid Measures

4.1 Description of first-aid measures

General notes	First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately. In all cases of doubt, or when symptoms persist, seek medical advice
Following inhalation	Move to fresh air.
Following skin contact	Wash skin with water and soap and rinse thoroughly.
Following eye contact	If wearing contact lenses, remove them. Rinse out with plenty of water.
Following ingestion	Remove material from mouth. Drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Skin	May cause mild irritation for sensitive skin.
Eyes	Mild eye irritation. Symptoms may include tearing, redness, and stinging sensation.
Ingestion	Nausea, diarrhea. Unlikely to be harmful unless excessive amount.
Long Term Exposure.	None.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for doctor	Treat symptomatically
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SECTION 05: Firefighting Measures

5.1 Extinguishing Media

Suitable extinguishing media	Water spray, foam, CO ₂ or dry powder.
Unsuitable extinguishing media	For this mixture no limitations of extinguishing agents are given.
Special protective equipment	Self-containing breathing apparatus and protective clothing if necessary.

5.2 Specific hazards arising from the substance or mixture

Decomposes when temperature rises. Upon combustion CO and CO₂ and dense smoke are formed.

5.3 Advice for firefighters

Special protective equipment for firefighters	Wear appropriate protective equipment and self-contained breathing apparatus (SCBA).
Special precautions for firefighters	Fight fire with normal precautions from a reasonable distance.

SECTION 06: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

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Poland. MACs. Minister of Labour and Social Policy on Maximum Allowable Concentrations and Intensities in Working Environment	TWA	10	Aerosol
Portugal.	TWA:	10	Mist
Sweden	No data available.		
The Netherlands. Ministry of Social Affairs and Employment	TWA	10	Mist
UK. EH40 Workplace Exposure Limits (WELs)	TWA	10	Mist

TWA-: time-weighted average (long term exposure limit).

Relevant DNELs of components of the mixture. Glycerol. (56-81-5)

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	56 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

Relevant PNEC of the components of the mixture. Glycerol (56-81-5).

Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0.885 mg/l	aquatic organisms	freshwater	short-term (single instance)
PNEC	0.0885 mg/l	aquatic organisms	marine water	short-term (single instance)
PNEC	1,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	3.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0.33 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
PNEC	0.141 mg/kg	terrestrial organisms	soil	short-term (single instance)
PNEC	8.85 mg/l	aquatic organisms	water	continuous

8.2 Exposure controls
Appropriate engineering controls

Adequate ventilation should be provided.

Individual protective measures

Maintain general industrial hygiene practices when using this product. For skin protection, use gloves. For eyes protection, use safety glasses.


Eye/face protection

Safety glasses are recommended.

Skin protection

Wear suitable gloves (nitrile, latex/rubber, PVC, butyl, material thickness >0.11 mm). Chemical protection gloves are suitable, which are tested according to EN 374.

Respiratory protection

In case of inadequate ventilation wear suitable respiratory protection.

Other protective measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Environmental exposure control

Do not let product enter drains.

SECTION 09: Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance

Physical State	Gel
Color	Clear or light yellow
Odor	Odorless
Odor threshold	No data available.

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Other safety parameters

pH	5.5-7
Freezing/melting point	Not available.
Boiling point	111.3°C
Flash point	>160°C (320°F) (glycerin) PMCC
Evaporation rate	No data available.
Flammability	Non-flammable.

Explosive limits

Lower explosion limit (LEL)	No data available.
Upper explosion limit (UEL)	No data available.
Vapour pressure	553 mm Hg at 100°C.
Vapour density	Not available.
Specific density	1.16 at 25°C

Solubility

water	soluble
chloroform	insoluble
Partition coefficient	Not available.
Auto ignition temperature	370°C (698°F) (glycerin)
Decomposition temperature	Not available.
Viscosity	Not available.

9.2 Other information

VOC content	0%
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SECTION 10: Stability and Reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport. In case of warming: Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under normal operational procedures.

10.3 Possibility to hazardous reactions

Reacts with: Strong oxidiser. Peroxides. Nitric acid and nitrous acid.

10.4 Conditions to Avoid

Keep away from excessive heat, strong acids, bases, strong oxidizing agents like chromium trioxide, or potassium permanganate.

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

Carbon monoxide, dense smoke.

For hazardous combustion products, see section 5.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity This mixture does not meet classification criteria (Regulation No 1272/2008/EC).

Skin corrosion/irritation: Not classified.

Serious eye damage/eye irritation: Not classified.

Respiratory or skin sensitization: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity - single exposure: Not classified.

Specific target organ toxicity - repeated exposure: Not classified.

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Aspiration hazard: Not classified.

Repeated or prolonged contact with the product can cause non-allergic contact dermatitis and absorption of the product through the skin.

Numerical measures of toxicity (glycerol, 56-81-5)

LD ₅₀ oral, rat:	>12600 mg/kg,
LD ₅₀ dermal, rabbit	>10000 mg/kg
Skin contact, rabbit:	500 mg/24 hrs No effect
Eye contact, rabbit:	126 mg, mild irritation 24h
Dermal rabbit LD ₅₀ :	>10000 mg/kg

Information on the likely routes of exposure

Ingestion	Unlikely to be harmful unless excessive amount.
Skin contact	May cause skin irritation on sensitive skin.
Eye contact	May irritate eyes.

Symptoms related to the physical, chemical and toxicological characterization

Skin	May cause mild irritation for sensitive skin.
Eyes	May cause mild eye irritation. Symptoms may include tearing, redness and stinging sensation.
Ingestion	Nausea, vomiting, diarrhea if ingested in large quantities.
Long Term Exposure.	None.
Over-exposure signs/symptoms	No data available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity	Not classified.
Skin irritation	May cause mild skin irritation on sensitive skin.
Eye damage	May irritate eyes.
Ingestion	If a large quantity has been ingested, may cause nausea and diarrhea.
Reproductive cell mutagenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity.	No data available
Carcinogenicity	The components are not listed as carcinogens by the IARC, NTP, and OSHA-Ca.
Long term and Chronic effect	Negative (sensitization test, guinea pig)

Additional toxicological information:

If used and handled according to specifications, the product does not have any harmful effects according to the information provided to us.

SECTION 12: Ecological Information

12.1 Toxicity

Acc. to 1272/2008/EC: not be classified as hazardous to the aquatic environment.

No ecological problems is expected if the product is handled and used with due care and attention.

Aquatic toxicity

Mild water pollutant (surface water).

WGK water hazard class. WGK 1 - low hazard to water

Harmful effect for aquatic organisms

Not harmful for fish, aquatic organisms, algae, bacteria (EC₅₀>1000mg/L).

Ecotoxicity data (glycerol, 56-81-5):

Carrassuis Auratus (Goldfish)	24Hrs LC ₅₀ >5000 mg/L
Oncorhynchus mykiss (Rainbow trout)	96 hrs LC ₅₀ =51000-57000 mg/L
Daphnia magna	24hrs EC ₅₀ >10000 mg/L

12.2 Persistence and degradability

Readily biodegradable. OECD 301D: 82%; 20 days.

12.3 Bioaccumulative potential

Log Kow -1.75 (glycerol).

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- 12.4 Mobility in soil** No data available.
- 12.5 Results of PBT and vPvB assessment** Not a PBT or vPvB (Annex XIII of Regulation 1907/2006).
- 12.6 Other adverse effects** Not known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Dispose in accordance with applicable local, state, and federal regulations. Do not dispose via sinks, drain or into immediate environment. Small quantities can be disposed of with solid waste.

Packaging. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Recommended cleansing agent

Water, if necessary with cleansing agents.

Disposal method/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local, regional, national, international regulations.

SECTION 14: Transportation Information

- 14.1 UN number.** Not subject to transport regulations.
- 14.2 UN proper shipping name.** Not relevant.
- 14.3 Transport hazard class(es).** Not relevant.
- 14.4 Packing group.** Not relevant.
- 14.5 Environmental hazards.** None. (non-environmentally hazardous acc. to the dangerous goods regulations), (DOT, ADR, ADN, IMDG, IATA). Not identified as marine pollutant.
- 14.6 Special precautions for user.** None.
- 14.7 Transport in bulk according to Annex II of Marpol and IBC Code.** The cargo is not intended to be carried in bulk.
- 14.8 Information for each of the UN Model Regulations**
Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). Not subject to ADR, RID and ADN.
- International Maritime Dangerous Goods Code (IMDG)** Not subject to IMDG.

SECTION 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**
None of the ingredients are listed.
- Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**
None of the ingredients are listed.
- Regulation 850/2004/EC on persistent organic pollutants (POP)**
None of the ingredients are listed.
- Restrictions according to 1907/2006 REACH, Annex XVII**
None of the ingredients are listed.
- List of substances subject to authorisation (REACH, Annex XIV)**
None of the ingredients are listed.

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Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 0 %

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 0 %

Regulation on substances subject to authorization, REACH Annex XIV.

Not listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR).

Not listed.

Other regulations

Germany

WGK water hazard class – VwVwS: WGK 1 – low hazard to water

Storage class VCI: 12

International Inventories

TSCA, EINECS/ELINCS, ENCS, IECSC, PICCS, AICS Listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out by the supplier for this mixture.

SECTION 16: Other Information

Date of revision:

version 6.0 (03.06.2018)
03.12.2019

Comply with (EU) 2015/830. Emergency numbers are updated.
National emergency telephone numbers, OEL are updated.

Relevant R- phase, hazard statements, safety phrases and/or precautionary statements.

None.

Abbreviations and acronyms: *Descriptions of used abbreviations*

AND- Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR- Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BOD- Biochemical Oxygen Demand

CAS- Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

CLP- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DMEL- Derived Minimal Effect Level

DNEL- Derived No-Effect Level

IMDG- International Maritime Dangerous Goods Code

log KOW- n-octanol/water

MARPOL- International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)

PBT- Persistent, Bioaccumulative and Toxic

PNEC- Predicted No-Effect Concentration

REACH- Registration, Evaluation, Authorisation and Restriction of Chemicals

RID- Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)

TWA- time-weighted average, average exposure on the basis of a 8h/day, 40h/week work schedule

VOC- Volatile Organic Compounds

vPvB- very Persistent and very Bioaccumulative

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Key literature references and sources for data:

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

The submission of the MSDS may be required by law but this is not an assertion that the product is hazardous when used in accordance with proper safety practice and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein is based on the present state of our knowledge. The information relates to the specific product designed herein, and does not relate to use in combination with any other material or any other process. It characterizes the product with regards to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. Tessonics Corporation assumes no responsibility for injury to the recipient or third person or for any damage to any property resulting from misuse of the product.

End of the SDS