



SECTION 01: Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name UTF Gel (Imagel)

Other means of identification

Product Number UC-7355; R03-GEL1

1.2 Recommended use of the chemical and restrictions on use

Product Uses Sound conducting gel

Uses advised against Not known

1.3 Supplier's details Tessonics Inc.

597 Ouellette Avenue Windsor, Ontario Canada, N9A 4J3 Tel.: +1-866-440-3313

Fax: +1-519-250-5747

1.4 Emergency phone number

In case of chemical emergency, fire, or exposure, calls Tessonics at +1-866-440-3313 (Mon-Fri 09:00-17:00

EST) or your regional Poison Information Service:

China +86 10 831 32 046 / +86 10 660 981 14 Japan +81 72 727 2499/+81 29 852 9999

China, Hong Kong +852 2772 2211 Taiwan 866-2-28757525 India 1800 116 117 / +91 112 659 36 77 Thailand +66 2 419 7007

SECTION 02: Hazards Identification

2.1 GHS Classification of the substance/mixture and any national or regional information

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

2.2 GHS Label elements

2.3 Other hazards. None.

SECTION 03: Composition /Information on ingredients

3.1 Substances Mixture. See 3.2.

3.2 Mixtures

Chemical Name:	Identifiers	Classification GHS	Wt/Wt %
Glycerol, USP Kosher	CAS # 56-81-5	Not classified.	60-65
Synonyms: Glycerin, 1,2,3-propanetriol, 甘油	EC # 200-289-5		

Other components: Components not listed here are not hazardous.

SECTION 04: First-Aid Measures

4.1 Description of necessary measures

After inhalation Move to fresh air. When symptoms persist, seek medical advice.

After skin contact Wash with water and soap and rinse thoroughly.

After eye contact Rinse for several minutes under running water. If wearing contact lenses,

remove them. If symptoms persist, consult a doctor.

After ingestion Remove material from mouth. Drink plenty of water. Do NOT induce vomiting.

4.2 Most important symptoms/ effects, both acute and delayed

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. Unlikely to be harmful unless excessive amount.

Long Term Exposure. None.

4.3 Indication of immediate medical attention and special treatment needed.

The protection of first- Use personal protective equipment.

aiders



Note to physicians. Treat symptomatically.

SECTION 05: Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media Water, foam, CO₂ or dry powder.

Unsuitable extinguishing media Not known.

Special protective equipment Wear self-containing breathing apparatus and protective clothing if

necessary.

5.2 Specific hazards arising from the chemical

Special Risks Decomposes when temperature rises. Upon combustion CO and CO₂ and

dense smoke are formed.

5.3 Special protective equipment and precautions for fire-fighters

Special precautions for firefighters
Promptly isolate the scene by removing all persons from the vicinity of the

incident.

Special protective equipment for Wear appropriate protective equipment and self-contained breathing

firefighters apparatus (SCBA).

SECTION 06: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Wipe up with absorbent material (e.g. cloth, fleece). Ventilate

spillage area. Keep away from sources of ignition - No

smoking.

For emergency responders Do not attempt to take action without suitable protective

equipment.

6.2 Environmental Precautions

Minimize contamination of drains, surface or ground waters. Dilute with water.

6.3 Methods and materials for containment and cleaning up

Absorb spillage onto inert material (e.g. sand or vermiculite). Transfer product to suitably labeled containers for disposal at approved cites. Residues and small spillages may be washed with water and detergent.

For hazardous combustion products: see section 5.

For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

SECTION 07: Handling and Storage

7.1 Precaution for safe handling

Maintain general industrial hygiene practices. Avoid contact with eyes. Wear eye protection and gloves (nitrile, latex/rubber, butyl, or neoprene) when handling material. See Section 8 for Individual protective measures.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage Store in a cool, dry area away from sources of heat, moisture, and incompatible

substances. Keep container tightly closed.

Incompatible substances Strong oxidizing agents such as strong acids, Chromium Trioxide, Potassium

and mixtures Chlorate, or Potassium Permanganate.

SECTION 08: Exposure Controls/ Personal Protection

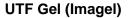
8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Occupational exposure limit values (workplace exposure limits), Glycerol (56-81-5)

Country. Organization	Туре	OEL value, mg/m ³	Form
USA/Canada. American Conference of Governmental Industrial Hygienists (ACGIH)/	TWA	15	Mist
Occupational Safety and Health Administration (OSHA). Occupational exposure limits			
Korea	TWA	10	Mist
South Korea	TWA	10	Mist
China	TWA	Not available.	
Taiwan	TWA	Not available.	
Singapore	PEL	10	

Relevant DNEL/ PNEC values





Relevant D	NELs (glycer	ol)			
End	ooint	Threshold	Protection goal,	Used in	Exposure time
		level	route of exposure		
DN	EL	56 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

Environmental values (glycerol)

Endpoint	Threshold	Organism	Environmental	Exposure time	
	level		compartment		
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 Appropriate engineering controls

Adequate ventilation should be provided.

8.3. Individual protective measures

Maintain general industrial hygiene practices when using this product. Gloves. Safety Glasses.



Eye/face protection Safety glasses are recommended.

Skin protection Handle with gloves (nitrile, latex/rubber, PVC, butyl, material thickness >0.11

mm). Chemical protection gloves are suitable, which are tested according to

EN 374. Other protective measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier

creams/ointments) is recommended. Wash hands thoroughly after handling. Respiratory protection

In case of inadequate ventilation wear suitable respiratory protection.

8.3 Control of environmental exposure

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

Clear or light yellow Color

Odor Odorless

Odor threshold No data available.

Other safety parameters

5.5-7 pН

Freezing/melting point Not available. 111.3°C Boiling point

>160°C (320°F) (glycerin) PMCC Flash point

Evaporation rate No data available. Flammability Non-flammable.

Auto ignition temperature 370°C (698°F) (glycerin) Not available.

Decomposition temperature

Explosive limits

Lower explosion limit (LEL) No data available. Upper explosion limit (UEL) No data available. Vapour pressure 553 mm Hg at 100°C.

Not available. Vapour density Specific density 1.16 at 25°C

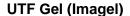
Solubility water soluble

> chloroform insoluble

Partition coefficient Not available. Viscosity Not available.

9.2 Other information

VOC content <0.5% (5.5g/L)





SECTION 10: Stability and Reactivity

10.1 Reactivity

The product is non-reactive under normal conditions.

10.2 Chemical stability

Stable under normal operational procedures.

10.3 Possibility to hazardous reactions

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

10.4 Conditions to Avoid

Excessive heat. Strong acids, bases, strong oxidizing agents (chromium trioxide, or potassium permanganate).

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

Carbon monoxide, dense smoke. Hazardous combustion products: see section 5.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

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,

swelling, and stinging sensation.

Ingestion Nausea, vomiting, diarrhea if ingested in large quantities.

Long Term Exposure. None.

Over-exposure No data available.

signs/symptoms

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

Specific target organ toxicity. No data available. Carcinogenicity No data available

Long term and Chronic effect The components are not listed as carcinogens by the IARC, NTP.

Negative (sensitization test, guinea pig)

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

Acute oral toxicity: $LD_{50}>27200 \text{ mg/kg, rat}$ Acute dermal toxicity: $LD_{50}>56750 \text{ mg/kg, rabbit}$ Skin irritation, rabbit: 500 mg/24 hrs No effect Eye irritation, rabbit: 126 mg, mild irritation 24h

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

No ecological problems to be expected when the product is handled and used with due care and attention. **Aquatic toxicity**Mild water pollutant (surface water).



WGK water hazard class - VwVwS: 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):

Oncorhynchhus mykiss (Rainbow trout) 96 hrs LC₅₀ =51000-57000 mg/L

24hrs EC₅₀ >10000 mg/L Daphnia magna

12.2 Persistence and degradability Readily biodegradable. OECD 301D: 82%; 20 days.

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

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 drains. Small quantities can be disposed of with solid waste.

13.2 Contaminated packaging

Disposal in compliance with local official regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

13.3 Recommended cleansing agent

Water, if necessary with cleansing agents.

13.4 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 dangerous goods.

Not relevant. 14.2 UN proper shipping name.

Not dangerous goods. 14.3 Transport hazard class. 14.4 Packing group. Not dangerous goods.

14.5 Environmental hazards. None (DOT, ADR, ADN, IMDG, IATA). 14.7 Transport in bulk. Not intended to be carried in bulk.

14.6 Special precautions for user None.

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations

Relevant provisions of the United States:

TSCA

Glycerol is listed. Section 8(b).

Section 12(b) Export Notification (40 CFR 707, Subpt. D). Not listed. Health & Safety Reporting List / TSCA Significant New Use Rule Not listed. US OSHA (29 CFR 1910.1001-1050). Not on regulatory list.

Clean Air Act (CAA) Section 112

Clean An Act (C	AA) Section 112	<u> </u>			
Chemical name	CAS#	HAPs	VOC Chemicals	Class 1 Ozone	Class 2 Ozone
		data		Depletors	Depletors
Glycerin	56-81-5	-	SCAQMD M 313 Volatile* ASTM E1868 Non-Volatile* U.S. EPA M24 Semi-Volatile* EPA, CARB & OTC Non-Volatile* Green Seal Non-Volatile*	-	-

*Uyên-Uyên T. Võ, Michael P. Morris Non-Volatile, Semi-Volatile, or Volatile: Redefining Volatile for Volatile Organic Compounds, South Coast Air Quality Management District, http://www.aqmd.gov



Clean Water Act 40 CFR 122.21 and 40 CFR 122.42. Not regulated.

SARA

CERCLA Not on regulatory list under CERCLA (40 CFR 302) or the Superfund SARA (40 CFR 355).

SARA 313 Act and Title 40 of the Code of Federal Regulations, Part 372. Not regulated.

SARA 311/312 Hazard Categories. Immediate Health Hazard (glycerol).

State Regulations

Glycerol can be found on the Pennsylvania, Minnesota, and Massachusetts right to know lists.

Relevant provisions of Canada:

HMIS/NFPA: Health -1, Flammability – 1, Reactivity – 0 Hazardous Product Act. Not controlled substance. Domestic Substances List. Listed (Glycerol). Ingredient Disclosure List. Not listed.

Relevant provisions of Taiwan:

TCSI inventory. Glycerol (56-81-5). Listed. Toxic Chemical Substance List. Not listed.

Relevant provisions of Korea:

Korea Existing Chemicals Inventory (KECI). Glycerol. Listed.

Relevant provisions of China:

Inventory of Existing Chemical Substances in China (IECSC). Glycerin. Listed.

Catalog of Hazardous Chemicals (2015). Glycerol. Not listed.

Relevant provisions of Japan:

List of Existing and New Chemical Substances (CSCL-ENCS). Glycerol. Listed.

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 issue: April 16, 2009.

Date of revision: Reason for revision:

September 20, 2024 Comply with GHS (9th editition)

Prepared by Tessonics Inc.

Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals (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 provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information should not constitute a guarantee for any specific product properties. 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