

SAFETY DATA SHEET
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 a chemical emergency, spill, fire, or exposure, calls Tessonics at +1-866-440-3313 (Mon-Fri 09:00-17:00 EST) or your regional Poison Information Service. National Poison Information Centres:
 Canada 1-800-268-9017 US 1-800-222-1222

SECTION 02: Hazards Identification
2.1 Classification.

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200): Classification criteria are not met.

Globally Harmonised System (GHS): Classification criteria are not met.

2.2 GHS Label elements
Label/ Pictogram/ Hazard statement/ Precautionary statement.

OSHA Hazard Communication Standard (29 CFR 1910.1200). Not required.

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

Manufacturer voluntary places the following statements on the label to ensure customer safety.

Response phrases: IF IN EYES OR ON SKIN: Rinse cautiously with water for several minutes.

2.3 Other hazards. Not identified. This product does not contain any PBT or vPvB substances.

SECTION 03: Composition /Information on ingredients
3.1 Substances Mixture. See 3.2.

3.2 Mixtures

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

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 the 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.

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Eyes	May cause mild eye irritation. Symptoms may include tearing, redness, and stinging sensation.
Ingestion	Nausea, vomiting, diarrhea. Unlikely to be harmful unless excessive amounts.
Long Term Exposure.	None.

4.3 Indication of immediate medical attention and special treatment needed.

Protection of first-aiders	Use personal protective equipment.
Note to physicians	Treat symptomatically.

SECTION 05: Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media	Water, foam, CO ₂ 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 the temperature rises. Upon combustion CO and CO ₂ and dense smoke are formed.
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5.3 Special protective equipment and precautions for fire-fighters

Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident.
Special protective equipment for fire-fighters	Wear appropriate protective equipment and self-contained breathing 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 labelled containers for disposal at approved sites. 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. Do not take internally. 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 the container tightly closed.
Incompatible substances and mixtures	Strong oxidizing agents such as strong acids, Chromium Trioxide, Potassium 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.

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

Country. Organization	Type	OEL value, mg/m ³	Form
USA/Canada. ACGIH/OSHA. Permissible Exposure Limits (PEL)	TWA	15	Mist
Mexico (NOM-010-STPS-1999)	TWA	10	Fog

Relevant DNEL/ PNEC values (glycerol)

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

Environmental values (glycerol)

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

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

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

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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 oxidizer. 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
Classification procedure

The method for classification of the mixture is based on mixture ingredients (additivity formula).

Classification acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product does not meet the criteria for classification.

Information on the likely routes of exposure

Ingestion Unlikely to be harmful unless excessive amounts.
 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 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)

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

Acute oral toxicity: LD₅₀>27200 mg/kg, rat
 Acute dermal toxicity: LD₅₀>56750 mg/kg, rabbit
 Skin irritation, rabbit: 500 mg/24 hrs, No effect

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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

Shall not be classified as hazardous to the aquatic environment.

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):

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

Daphnia magna 24hrs EC₅₀ > 10000 mg/L

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 a 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.

14.2 UN proper shipping name.

Not relevant.

14.3 Transport hazard class.

Not dangerous goods.

14.4 Packing group.

Not dangerous goods.

14.5 Environmental hazards.

None (DOT, ADR, ADN, IMDG, IATA). Not identified as a marine pollutant.

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: (glycerol, 56-81-5)

OSHA Hazard Communication Standard, 29 CFR 1910.1200. Not classified.

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

Superfund Amendment and Reauthorization Act (SARA)

SARA 302 Extremely hazardous substance. Not listed.

SARA 304 Emergency release notification. Not regulated.

SARA 311/312 Hazardous chemical. No.

SARA 313 Not regulated.

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Extremely Hazardous Substance List and Threshold Planning Quantities (EPCRA Section 302, 304). Not listed.
 CERCLA Section 102a, (40 CFR 302.4). Not listed.
 Clean Air Act (CAA)
 CAA Section 112 HAPs List, Section 112(r) Accidental release prevention (40 CRF68.130). Not regulated.
 SDWA. Not regulated.

Chemical name	CAS#	HAPs data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Glycerol	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. Vó, 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>

Relevant provisions of Canada:

Hazardous Product Act. Not controlled substance.
 Domestic Substances List. Listed (Glycerol).
 Ingredient Disclosure List. Not listed.

Relevant provisions of Mexico:

NOM-018-STPS-2000: Glycerin (fog).
 PPE ID-E (Safety glasses, gloves and dust respirator).
 NOM-028-STPS-2012. Not listed.

National Inventories:

DSL, EINECS, ENCS, ECL, TCSI, IECSC, PICCS, AICS. Listed. (glycerol, 56-81-5)
 TSCA. Listed, Active inventory (glycerol, 56-81-5).

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: February 9, 2021
Reason for revision: Updated to comply with TSCA inventory notification rule.
 Prepared by Tessonics Inc.

Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 7th ed.

Classification procedure

Physical and chemical properties: The classification is based on a tested mixture.
 Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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