

# **MSDS (Material Safety Data Sheet)**

MSDS revision date: 12/11/2017

## 1. Product and company identification

Product Name: TOOLS HR Gradient gel solution

Catalogue Numbers: TFU-GG420

**Contents** 

Product	Content	Cat no:	Size
TOOLS HR Gradient gel solution	Gradient Gel Solution	TFU-GG420	500 ml
	Stacking Gel Solution		120 ml

Class Identifier: For research use only reagent Company Identification: Biotools Co., Ltd.

7F.-3, No.99, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

Tel: +886-2-26972697 Fax: +886-2-26993689 email: info@toolsbiotech.com web:

http://www.tools-biotech.com

## 2. Composition / information on hazardous ingredients

Chemical name % CAS# EC# Classification (pure Class.(comp.)

Conc. ingredient)

Proprietary ingredients - - - Not hazardous NA

Water >50% - - Not hazardous NA

Chemical characterization

Description: Solution, consisting of the following components.

**Other components:** Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29.CFR 1910.1200.

## 3. Hazards identification

Eyes May cause eye irritation with susceptible persons.

Skin May cause skin irritation and/or dermatitis.

Inhalation May be harmful by inhalation.
Ingestion May be harmful if swallowed.
Carcinogenic effects No information available.
Mutagenic Effects No information available.
Reproductive Toxicity No information available.
Sensitization No information available.

Causes skin and eye irritation. May be harmful by inhalation or swallowed. Health 0 Flammability 0

Reactivity 0





HMIS ratings (scale 0 4)

HEALTH	0
FIRE	0
REACTIVITY	0

## 4. First aid measures

Ingestion Never give anything by mouth to an unconscious person. Consult a physician.

After inhalation Move to fresh air. If symptoms persist, call a physician.

After skin contact Wash off immediately with plenty of water. If symptoms persist, call a physician.

After eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

Notes to physician Treat symptomatically.

#### 5. Fire fighting measures

Protective equipment Wear self-contained breathing apparatus and protective

#### 6. Accidental release measures

Person related safety precautions

Use personal protective equipment.

Measures for cleaning/collecting

Soak up with inert absorbent material.

Additional information

No dangerous substances are released.

## 7. Handling and storage

Handling Wash thoroughly after handling. Wash hands before eating. Keep container tightly

closed. Use with adequate ventilation.

Storage Keep container closed when not in use. Store at room temperature.

## Exposure controls and personal protection

Components with limit values that The product does not contain any relevant quantities of materials with critical values

require monitoring at the workplace that have to be monitored at the workplace.

Additional information Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand Protection Protective gloves.

Eye Protection Safety glasses with side-shields.
Skin and Body Protection Lightweight protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls Prevent product from entering drains.





## 9. Physical and chemical protection

General Information Form: Liquid (buffer); Color: Colorless (buffer); Odor: Odorless

Boiling Point/Range Not applicable.

Melting Point/Range Not applicable.

Flash point Not applicable.

Autoignition Temperature Do not auto ignition.

Oxidizing Properties No information available.

Water Solubility Moderate.

## 10. Physical and chemical protection

Stability Stable under normal conditions.

Materials to be avoided Metals.

Hazardous decomposition products No information available.

Polymerization Hazardous polymerisation does not occur.

## 11. Toxicological information

Acute toxicity

Primary irritant effect

On the skin

On the eye

No irritant effect.

No irritant effect.

No irritant effect.

Sensitization No sensitizing effects known.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Mobility

No information available.

# 13. **DISPOSAL CONSIDERATIONS**

Recommendation Dispose according to current regional and national rules.

## 14. TRANSPORT INFORMATION

Proper Shipping Name Not classified as dangerous in the meaning of transport regulations

Road/Railway Haulage ADR/RID Not restricted.

Sea Freight IMO (IMDG) Not restricted.





Air Freight IATA (ICAO) Not restricted. **UN Number** 

## 15. REGULATORY INFORMATION

None of the chemicals in this product are listed as Toxic Pollutants under the CWA. None of the chemicals in this product are considered highly hazardous by OSHA.

Not restricted.

## 16. Other INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTCULAR PURPOSE.

