

MATERIAL SAFETY DATA SHEET

SECTION 1 ----- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

GeneFinder™ COVID-19 Plus RealAmp kit Catalog number: IFMR-45

1.2 Component:

COVID-19 Plus Reaction Mixture

COVID-19 Plus Probe Mixture

COVID-19 Plus Positive control

COVID-19 Plus Negative control

1.3 Use of the substance / preparation

In vitro Diagnostics (IVD). / RNA detection with the Reverse transcription and nucleic acid amplification technique.

1.4 Supplier / manufacturer

OSANG Healthcare Co., Ltd.

132, Anyangcheondong-ro, Dongan-Gu, Anyang-si, Gyeonggi-do, 14040, Korea

Phone : +82 31 460 0300 Fax : +82 31 460 0403 Web: www.osanghc.com

SECTION 2 ----- HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

No data available

2.2 Label elements

This product does not need to be labelled in accordance with EC directives.

No particular hazards expected in ordinary conditions of use.

2.3 Other hazards

None

SECTION 3 ----- COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Components

Chemical name	CAS #	WT %	EC No.
Ethylenediaminetetra acetic acid	60-00-4	< 0.01%	200-449-4
Glycerin	56-81-5	0.6	200-289-5
Potassium Chloride	7447-40-7	< 5%	231-211-8
Tris-aminomethane hydrochloride	1185-53-1	< 0.2%	214-684-5
Trizma base	77-86-1		201-064-4
Ethylenediaminetetra acetic acid	6381-92-6		205-358-3

4.1 Description of first aid measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes.

In case of skin contact

Wash off with soap and plenty of water.

If inhaled

If breathed in, move person into fresh air.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 ----- FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

5.2 Special hazards arising from the substance and emergency procedures

No further relevant information available.

5.3 Advice for firefighters

No data available

5.4 Further information

No data available

SECTION 6 ----- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7 ----- HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep container tightly closed in a freezer below -20°C

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a freezer below -20°C .

7.3 Specific end uses

Store and handle according to packaged instructions.

SECTION 8 ----- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameter

Components with workplace control parameters.

8.2 Exposure controls

Appropriate engineering controls

No data available

Respiratory protection

Not required under normal and intended uses

Hand protection

Wear protective gloves, clothing.

Eye protection

Tightly fitting safety goggles

Skin and body protection

Wear protective gloves, clothing.

SECTION 9 ----- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance form	liquid
b) odor	Odorless
c) odor threshold	No data available
d) pH	No data available
e) Melting/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability	No data available

j) upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	Some components are soluble
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No further relevant information available

SECTION 10 ----- STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11 ----- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ethylenediaminetetra acetic acid	LD50 30mg/kg (Oral, mouse)
	LD50 4090mg/kg (Oral, mouse)
Glycerol	LD50 27gm/kg (Oral, rabbit)
	LD50 12600mg/kg (Oral, rat)
	LD50 > 10gm/kg (Skin, rabbit)
Potassium chloride	LD50 2600mg/kg (Oral, rat)
Tris-aminomethane hydrochloride	LD50 > 3000mg/kg (Oral, rat)
	LD50 > 5000mg/kg (Skin, rat)

Trizma base	LD50 > 3.000 mg/kg (Oral, rat)
	LD50 > 5.000 mg/kg (Skin, rat)
Ethylenediaminetetra acetic acid	LD50 > 2.000 mg/kg (Oral, rat)

Skin irritation

Ammonium sulfate	Skin-rabbit-No skin irritation
	Skin-Human-Mild skin irritation
Trizma® base	Skin-rabbit-No skin irritation
Tween 20	Skin-rabbit-No skin irritation

Eye irritation

Glycerol	Slightly irritation (rabbit)
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Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12 ----- ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13 ----- DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product

SECTION 14 ----- TRANSPORT INFORMATION**14.1 UN number**

ADR/RID: –

IMDG: –

IATA: –

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: –

IMDG: –

IATA: –

14.4 Packaging group

ADR/RID: –

IMDG: –

IATA: –

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for users

No data available

SECTION 15 ----- REGULATORY INFORMATION

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

No data available

15.2 Chemical Safety Assessment

No data available

SECTION 16 ----- OTHER INFORMATION

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. OSANG Healthcare Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. Each individual should make a determination as to the suitability of the information for their particular purpose(s). Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.