

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

### SECTION 1: Identification of the substance/ mixture and of the company/ undertaking

#### Product identifier

Product form Mixture  
Trade name(s) F10 Hand Gel 70%

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

Relevant identified uses A broad-spectrum antimicrobial disinfectant hand gel used for the disinfection and decontamination of skin and hands.

#### Details of the supplier of the safety data sheet

Manufacturer Health and Hygiene (Pty) Ltd.  
Address Corner Leader and Hoefsmid Street, Stormill Ext. 10, Roodepoort, 1709, South Africa  
Telephone number +27 (0) 11 474 1668  
E- mail address [info@healthandhygiene.co.za](mailto:info@healthandhygiene.co.za) / [info@f10products.com](mailto:info@f10products.com)  
Emergency contact number(s) +27 (0) 11 474 1668

Country	Organisation	Website	Emergency number
Australia	Poisons Information Centre	<a href="https://www.health.qld.gov.au/poisonsinformationcentre">https://www.health.qld.gov.au/poisonsinformationcentre</a>	13 11 26
Belgium	Centre Anti-Poisons/ Antigifcentrum	<a href="https://www.poisoncentre.be/">https://www.poisoncentre.be/</a>	+32 70 245 245
Canada	BC Drug and Poison Information Center	<a href="https://www.dpic.org">https://www.dpic.org</a>	+1 604 707 2789
China	National Poison Control Center	<a href="https://www.npcc.org.cn/">https://www.npcc.org.cn/</a>	+86 10 831 323 45
Czech Republic	Toxicological Information Centre	<a href="https://www.tis-cz.cz">https://www.tis-cz.cz</a>	+420 22 49 192 93
Finland	Poison Information Centre	<a href="https://www.hus.fi/en/medical-care/medical-services/Poison%20Information%20Centre/Pages/default.aspx">https://www.hus.fi/en/medical-care/medical-services/Poison%20Information%20Centre/Pages/default.aspx</a>	0800 147 111 09 471 977
France	Centre antipoison et de toxicovigilance de Paris	<a href="https://www.centres-antipoison.net">https://www.centres-antipoison.net</a>	+33 (0)1 40 05 48 48
Germany	Clinical Toxicology and Berlin Poison Information Centre	<a href="https://www.giftnotruf.de">https://www.giftnotruf.de</a>	+49 30 192 40
Hong Kong	Hong Kong Poison Information Centre	<a href="http://www.hkpcn.org.hk/eng/hkpic.html">http://www.hkpcn.org.hk/eng/hkpic.html</a>	+852 3949 5089
Iceland	Eitrunarmiðstöð Landspítali	<a href="http://www.landspitali.is/?PageID=14556">http://www.landspitali.is/?PageID=14556</a>	+354 543 22 22

Product: <b>F10 Hand Gel 70%</b>	Version: <b>001</b>	Revision Date: <b>2022-06-01</b>	Page: <b>Page 1 of 13</b>
----------------------------------	---------------------	----------------------------------	---------------------------

## SAFETY DATA SHEET

Product: **F10 Hand Gel 70%**

Preparation date: **2022-06-01**

Revision date: **2022-06-01**

<b>Iraq</b>	Poisoning consultation centre	<a href="http://www.medicalcity-iq.net/en/displaySection.php?type=subSec&amp;nid=38">http://www.medicalcity-iq.net/en/displaySection.php?type=subSec&amp;nid=38</a>	<b>+964 (0)780 191 3821</b>
<b>Ireland</b>	National Poison Information Centre	<a href="https://www.poisons.ie">https://www.poisons.ie</a>	<b>+353 1 8092566</b>
<b>Italy</b>	Poison Centre – Catholic University School of Medicine	<a href="https://www.tox.it">https://www.tox.it</a>	<b>+39 06 305 43 43</b>
<b>Malta</b>	Medicines & Poisons Info Office	<a href="https://deputyprimeminister.gov.mt/en/Pages/health/asp">https://deputyprimeminister.gov.mt/en/Pages/health/asp</a>	<b>112</b>
<b>Netherlands</b>	Nationaal Vergiftigingen Informatie Centrum Uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen	<a href="https://www.umcutrecht.nl/nl/Subsites-nl/Nationaal-Vergiftigingen-Informatie-Centrum-(NVIC)/Productinformatie/Informatiesheet-product-notification">https://www.umcutrecht.nl/nl/Subsites-nl/Nationaal-Vergiftigingen-Informatie-Centrum-(NVIC)/Productinformatie/Informatiesheet-product-notification</a>	<b>+31 30 274 88 88 +31 (0)88 755 8000</b>
<b>New Zealand</b>	The National Poisons Centre	<a href="https://www.poisons.co.nz">https://www.poisons.co.nz</a>	<b>0800 764 766 0800 POISON</b>
<b>Philippines</b>	National Poison Management & Control Center	<a href="mailto:toxinfo@uppoisoncenter.org">toxinfo@uppoisoncenter.org</a>	<b>+632 544 8400 local 3726</b>
<b>Saudi Arabia</b>	Drug and Poison Information Center		<b>+966 11 442 7604</b>
<b>South Africa</b>	Tygerberg Poison Information Centre	<a href="mailto:toxicology@sun.ac.za">toxicology@sun.ac.za</a>	<b>+27 (0)861 555 777</b>
<b>Spain</b>	Servicio de Información Toxicológica	<a href="https://www.miteco.gob.es/es/calidad-y-evaluacion-ambiental/temas/productos-quimicos/portal-reach-clp/novedades/detalle_novedades.aspx?id=tcm:30-193752-16">https://www.miteco.gob.es/es/calidad-y-evaluacion-ambiental/temas/productos-quimicos/portal-reach-clp/novedades/detalle_novedades.aspx?id=tcm:30-193752-16</a>	<b>+34 91 562 0420</b>
<b>Switzerland</b>	Swiss Toxicological Information Centre	<a href="https://www.toxi.ch">https://www.toxi.ch</a>	<b>+41 44 251 51 51 (in Switzerland dial 145)</b>
<b>United Arab Emirates</b>	Health Poison and Drug Information Center	<a href="https://www.pdic.haad.ae">https://www.pdic.haad.ae</a>	<b>+971 8 449 3333</b>
<b>United Kingdom</b>	National Poisons Information Service	<a href="https://www.npis.org/">https://www.npis.org/</a>	<b>844 892 0111</b>
<b>USA</b>	National Capital Poison Center	<a href="https://www.poison.org">https://www.poison.org</a>	<b>1-800-222-1222</b>

In the case of a country not listed above, contact your nearest local Poison Centre.

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 2 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	---------------------

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP), Hazard class	Hazard Category	Classification procedure
Flammable liquid, H225	2	GHS classification

#### Label elements

Labelling according to Regulation (EC) No 1272/ 2008 [CLP]

#### Hazard pictogram(s)



GHS02

#### Signal word

Danger

#### Hazard statements

H225 — Highly flammable liquid and vapour.

#### Precautionary statements

P101	—	If medical advice is needed, have product container or label at hand.
P102	—	Keep out of reach of children.
P103	—	Read label before use.
P210	—	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P403 + P235	—	Store in a well-ventilated place and keep cool.
P370 + P378	—	In case of fire, use water, carbon dioxide or dry chemical for extinction.
P264	—	Wash hands thoroughly after handling.
P305 + P351 + P338	—	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P317	—	If eye irritation persists: Get emergency medical help.
P332 + P317	—	IF SKIN irritation occurs: Get emergency medical help.

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 3 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	---------------------

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

P273	—	Avoid release to the environment.
P391	—	Collect spillage.
P501	—	Dispose of container in suitable manner as is required by country legislation.

### Supplemental Hazard information

Not applicable

### Other hazards

None

## SECTION 3: Composition and information on ingredients

### Substances

Not applicable

### Mixtures

Substance name	CAS No EC No	Classification according Regulation (EC) No 1278/ 2008 [CLP]	Concentration (% w/w)
Di-decyl dimethyl-ammonium Chloride	7173-51-5 230-525-2	Acute Tox.; 3; H301/ Skin Corr.; 1B; H314 Aquatic Acute; 1; H400	0.03- 0.05 %
Benzyl (C12-16) Alkyl Dimethyl Ammonium chloride	68424-85-1 270-325-2	Acute Tox.; 4; H302/ Skin Corr.; 1B; H314 Aquatic Acute; 1; H400/ Aquatic Chronic; 1; H410	0.02- 0.04 %
Poly (hexamethylene biguanide) Hydrochloride	27083-27-8	Acute Tox.; 4; H302/ Acute Tox.; 2; H330 Eye Dam.; 1; H318/ Skin Sens.; 1B; H317/ Carc.; 2; H351/ STOT RE1; H372/ Aquatic Acute; 1; H400/ Aquatic Chronic; 1; H410	0.005 – 0.007%
Ethanol	64-17-5	Flam. Liq. 2; Eye Irrit. 2; H225, H319 Concentration limits: >= 50 %: Eye Irrit. 2A, H319	67 – 72 %
Ingredients determined not to be hazardous			Balance

### Additional information:

For full text of H- and EUH-statements, refer to SECTION 16.

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 4 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	---------------------

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

### SECTION 4: First aid measures

#### Description of first aid measures

##### General information

In case of concern or doubt, call a doctor or physician.

##### Following inhalation

Move the person to fresh air. Contact a physician if required.

##### Following skin contact

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard.

##### Following eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses if present. Continue flushing for at least 15 minutes, or until advised to stop by the Poisons Information Centre or a doctor. Seek immediate medical attention.

##### Following ingestion

Do not induce vomiting. Wash out mouth thoroughly with water.

#### Most important symptoms and effects, both acute and delayed

##### Symptoms/ effects following inhalation

None

##### Symptoms/ effects following skin contact

May be some irritation and reddening of the skin which will moderate after some time.

##### Symptoms/ effects following eye contact

May be some pain and reddening of the eye which will moderate after some time.

##### Symptoms/ effects following ingestion

Ingestion of the concentrate may cause irritation to mouth, throat and digestive tract.

#### Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice immediately and show label if possible.

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 5 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	---------------------

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

### Note to the doctor/ physician

Treat symptomatically.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

Use appropriate fire extinguisher for surrounding environment.

#### Unsuitable extinguishing media

Do not extinguish with water under high pressure.

### Special hazards arising from the substance or mixture

#### Hazardous combustion products

This product is highly flammable.

### Advice for firefighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe distance and location.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Wear appropriate personal protective equipment and clothing to prevent exposure to clothing, skin and eyes. Increase ventilation.

#### For emergency responders

Have a copy of the SDS available. Use appropriate personal protective equipment.

### Environmental precautions

In case of entry into sewers or waterways, inform the responsible authorities in accordance with relevant regulations.

### Methods and material for containment and cleaning up

#### For containment

Contain the spill with appropriate material and techniques.

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 6 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	---------------------

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

### For cleaning up

Clean spillages immediately. Do not dilute material but contain it. Place inert absorbent material onto spillage. Collect the material and place into a suitable container.

### Reference to other sections

Refer to SECTIONS 8 and 13 for exposure control/ personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### Precautions for safe handling

Avoid skin and eye contact. Keep containers sealed when not in use. Use in well-ventilated area. Wash hands and other exposed areas with soap and water prior to eating, drinking and smoking. Handle in accordance with good hygiene and safety procedures.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Protect from direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Ensure that storage conditions comply with applicable local and national regulations.

### Specific end use(s)

Refer to SECTION 1 for identified end use(s).

## SECTION 8: Exposure controls and personal protection

### Control parameters

### Occupational exposure limits

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing medical conditions and/ or allergic reactions and should be kept to the least possible levels.

### Biological limit values

No biological limits allocated.

### Exposure limits at intended use

DNEL/ PNEC – values — No data available

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 7 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	---------------------

## SAFETY DATA SHEET

**Product:** F10 Hand Gel 70%

**Preparation date:** 2022-06-01

**Revision date:** 2022-06-01

### Exposure controls

#### Appropriate engineering controls

Handle in premises with good ventilation. Eye rinsing facilities shall be available at the workplace.

### Personal protection equipment

#### Eye and face protection

None required. Care should be exercised to prevent contact with eyes.

#### Skin protection

None required.

#### Respiratory protection

No respiratory protection required.

### Environmental exposure controls

Refer to SECTION 12 for limitations on environmental exposure.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	—	a slightly viscous cloudy aqueous solution
Odour	—	alcohol odour
Odour threshold	—	not available
Melting point/ freezing point	—	not available
Boiling point	—	85°C
Flammability	—	flammable
Lower and upper explosion limit	—	not available
Flash point	—	16°C
Auto-ignition temperature	—	not available
Decomposition temperature	—	not available
pH (undiluted)	—	6.5
Viscosity	—	not available
Solubility in water	—	soluble
Partition coefficient	—	not known
Vapour pressure	—	not available
Density	—	0.9

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 8 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	---------------------



## SAFETY DATA SHEET

**Product: F10 Hand Gel 70%**

**Preparation date: 2022-06-01**

**Revision date: 2022-06-01**

Vapour density (air = 1) — not available

### Other information

No data available

## SECTION 10: Stability and reactivity

### Reactivity

The product contains no substances which could lead to hazardous reactions during normal use, handling and storage.

### Chemical stability

Stable when handled and stored under normal ambient conditions.

### Possibility of hazardous reactions

No hazardous reactions when handled and stored under normal ambient conditions.

### Conditions to avoid

Protect from direct sunlight. Protect from heat, hot surfaces, sparks, open flames and other ignition sources.

### Incompatible materials

Do not mix with anionic detergents and other chemicals.

### Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### Information on hazard classes as defined in Regulation (EC) No 1272/ 2008

Acute toxicity (oral) (rat)	—	No toxicity
Acute toxicity (dermal) (rat)	—	No toxicity
Skin corrosion/ irritation	—	Causes skin irritation
Serious eye damage/ irritation	—	Causes eye irritation
Respiratory or skin sensitisation	—	None
Germ cell mutagenicity	—	None predicted based on data for the raw materials

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 9 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	---------------------

## SAFETY DATA SHEET

**Product: F10 Hand Gel 70%**

**Preparation date: 2022-06-01**

**Revision date: 2022-06-01**

Carcinogenicity	—	None predicted based on data for the raw materials
Reproductive toxicity	—	None predicted based on data for the raw materials
STOT-single exposure	—	No known hazards for occasional exposure
STOT-repeated exposure	—	No known hazards for repeated exposure
Aspiration hazard	—	Not expected to be an aspiration hazard

### Information on other hazards

None

## SECTION 12: Ecological information

### Toxicity

Acute (short-term) toxicity	—	None
Chronic (long-term) toxicity	—	None

### Persistence and degradability

Product is readily biodegradable, and the product is neither persistent nor problematic metabolites are produced. The product is hydrolytically stable, and hydrolytic processes do not contribute to its degradation in the environment, it is neither volatile nor is it expected to be present in the air. It can be considered immobile in soil.

### Bioaccumulative potential

No additional information available.

### Mobility in soil

Not mobile in soil.

### Results of PBT vPvB assessment

None of the substances in this mixture is considered to be persistent, bioaccumulating and toxic or considered to be very persistent and very bioaccumulating.

### Endocrine disrupting properties

No additional information available.

### Other adverse effects

No additional information available.

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 10 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	----------------------

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

### SECTION 13: Disposal considerations

#### Waste treatment methods

Waste should not be disposed of by release to sewers. Dispose of this material and its container in a safe manner in accordance with relevant and applicable local and national regulations and/ or legislation. Avoid release to the environment.

### SECTION 14: Transport information

#### UN number or ID number

UN 1170

#### UN proper shipping name

Ethyl alcohol solution

#### Transport hazard class(es)



Class 3 — Flammable liquids

#### Packing group

Packing Group III

#### Environmental hazards

Not applicable.

#### Special precautions for user

None necessary.

#### Maritime transport in bulk according to IMO instruments

Not applicable.

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

### SECTION 15: Regulatory information

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

Classified as Hazardous according to SANS 10234:2008 Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

#### Chemical safety assessment

No chemical safety assessment has been performed for this mixture.

### SECTION 16: Other information

#### Indication of changes

New format.

#### Abbreviations and acronyms

EC	—	European Community
GHS	—	Globally Harmonized System
CLP	—	Classification Labelling Packaging Regulation
CAS	—	Chemical Abstracts Service Number
SDS	—	Safety Data Sheet
DNEL	—	Derived No Effect Level
PNEC	—	Predicted No Effect Concentration(s)
STOT	—	Specific Target Organ Toxicity
PBT	—	Persistent Bioaccumulative and Toxic Substance
vPvB	—	Very Persistent and Very Bioaccumulative
UN	—	United Nations
IMO	—	International Maritime Organisation
SANS	—	South African National Standards
w/w	—	Weight by Weight

#### Key literature references and sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, Regulation (EC) 1272/ 2008 Annex I, as well as from actual test data performed on the product itself.

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/ 2008 [CLP]

All classifications were done as per available test data or as per official European classification as listed per CLP and GHS regulations.

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 12 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	----------------------

## SAFETY DATA SHEET

Product: F10 Hand Gel 70%

Preparation date: 2022-06-01

Revision date: 2022-06-01

### Relevant H- and EUH-statements (number and full text)

H301	—	Toxic if swallowed
H302	—	Harmful if swallowed
H314	—	Causes severe skin burns and eye damage
H317	—	May cause an allergic skin reaction
H318	—	Causes serious eye damage
H319	—	Causes serious eye irritation
H330	—	Fatal if inhaled
H351	—	Suspected of causing cancer
H372	—	Causes damage to organs through prolonged or repeated exposure
H400	—	Very toxic to aquatic life
H410	—	Very toxic to aquatic life with long lasting effects

### Training advice

All personnel handling this product must be made aware of the content of the SDS and hazards of the product if any.

### Further information

Not applicable.

Product:	<b>F10 Hand Gel 70%</b>	Version:	<b>001</b>	Revision Date:	<b>2022-06-01</b>	Page:	<b>Page 13 of 13</b>
----------	-------------------------	----------	------------	----------------	-------------------	-------	----------------------