

## 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

**Product Identifier:** Kwiky Hand Cleansing Gel  
**Product Form:** Mixture

**Recommended use of the chemical and restrictions on use:**  
Isopropyl alcohol antimicrobial hand cleanser

**Supplier Details:**  
**CANADA**  
maxill inc.  
80 Elm St.  
St. Thomas, ON, Canada, N5R 6C8

**Emergency Contact:** maxill inc. 519-631-737024 hours: In Canada, CANUTEC: 613-996-6666  
In USA/Canada, ChemTel: 1-800-255-3924, outside USA/Canada 1-813-248-0585

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## 2. HAZARDS IDENTIFICATION

Flam. Liq. 2 H225  
Eye Irrit. 2A H319

GHS label elements, including precautionary statements



**Signal Word:**  
DANGER

**Hazard statement(s)**

H225 Highly flammable liquid and vapor.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness

**Precautionary statement(s)**

P501 Dispose of contents and container according to federal, state/provincial and municipal regulations.  
P305 + P351 + P338 + P337 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention  
P337 + P313  
P304 + 340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.

P312	Call a doctor if you feel unwell
P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233	Keep container tightly closed.
P403	Store in a well-ventilated place.
P405	Store locked up
P264	Wash hands thoroughly after handling.
P280	Wear eye protection.
P261	Avoid breathing mist, spray, vapours
P271	Use only outdoors or in a well-ventilated area

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<b>Chemical identity:</b>	Alcohol Gel
<b>Common name / Synonym:</b>	Isopropyl Alcohol 70%, 2-Propanol
<b>CAS number:</b>	67-63-0

%	Material	CAS
60-100	Isopropyl Alcohol (2-Propanol)	67-63-0
0.1 – 1.0	Propylene Glycol	57-55-6
0.1 – 1.0	Polyacrylic Acid	Not applicable
0.1 – 1.0	2-Amino-2-Methyl-1-Propanol	124-68-5
0.1 – 1.0	Fragrance	Not applicable

### 4. FIRST AID MEASURES

#### First-aid measures general:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

#### First-aid measures after inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### First-aid measures after skin contact:

Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

#### First-aid measures after eye contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

#### First-aid measures after ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Call Poison Information Centre Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.

**Symptoms/injuries after inhalation:**

EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.

**Symptoms/injuries after skin contact:**

Dry skin.

**Symptoms/injuries after eye contact:**

Irritation of the eye tissue.

**Symptoms/injuries after ingestion:**

AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration.

**Chronic symptoms:**

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

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## **5. FIRE FIGHTING MEASURES**

**Extinguishing Media**

**Suitable extinguishing media:** Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.

**Unsuitable extinguishing media:** Solid water jet ineffective as extinguishing medium.

**Special hazards arising from the substance or mixture**

**Fire hazard:**

DIRECT FIRE HAZARD. Highly flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

**Explosion hazard:**

DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".

**Reactivity:**

Upon combustion: CO and CO<sub>2</sub> are formed. Violent to explosive reaction with (strong) oxidizers. Prolonged storage/in large quantities: may form peroxides.

**Advice for firefighters**

**Firefighting instructions:**

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.

**Protection during firefighting:**

Heat/fire exposure: compressed air/oxygen apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel

**Protective equipment:** Gloves. Protective goggles. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.

**Emergency procedures:** Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.

#### For emergency responders

**Protective equipment:** Equip cleanup crew with proper protection.

**Emergency procedures:** Stop leak if safe to do so. Ventilate area.

#### Environmental Precautions

Prevent spreading in sewers.

#### Methods and material for containment and cleaning up

##### **For containment:**

Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.

##### **Methods for cleaning up:**

Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

### Hygiene Measures:

Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Conditions for safe storage, including any incompatibilities:**

**Incompatible products:**

Oxidizing agent. silver nitrate. Sodium hypochlorite.

**Incompatible materials:**

Direct sunlight. Heat sources. Sources of ignition.

**Heat and ignition sources:**

KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

**Prohibitions on mixed storage:**

KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. amines. halogens.

**Storage area:**

Store in a cool area. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. May be stored under nitrogen. Meet the legal requirements.

**Special rules on packaging:**

SPECIAL REQUIREMENTS: closing. with pressure relief valve. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

**Packaging materials:**

SUITABLE MATERIAL: stainless steel. monel steel. carbon steel. copper. nickel. bronze. glass. Teflon. polyethylene. polypropylene. zinc. MATERIAL TO AVOID: steel with rubber inner lining. aluminum.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

**Occupational Exposure Limits**

Isopropanol 70% v/v		
Source	Type	Value
US (OSHA PEL)	TWA	4000 ppm/980 mg/m <sup>3</sup>
US (ACGIH)	TWA	200 ppm
US (ACGIH)	STEL	200 ppm

**Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Materials for protective clothing:**

GIVE EXCELLENT RESISTANCE: butyl rubber. nitrile rubber. viton. polyethylene/ethylenevinylalcohol.

GIVE GOOD RESISTANCE: neoprene.

GIVE LESS RESISTANCE: PVC. neoprene/natural rubber.

GIVE POOR RESISTANCE: natural rubber. polyethylene. PVA.

**For beyond normal application to the hands (e.g. spill clean-up):**

**Hand protection:**

Gloves.

**Eye protection:**

Safety glasses.

**Skin and body protection:**

Protective clothing.

**Respiratory protection:**

Wear gas mask with filter type A if conc. in air > exposure limit.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.)</b>	Colorless semi-solid gel / invisible vapor.
<b>Odor</b>	Alcohol odour, mild citrus odour
<b>Freezing point</b>	< -30°C
<b>Initial boiling point and boiling range</b>	82 °C
<b>Flash point</b>	12 °C
<b>Evaporation rate</b>	2.3 (butylacetate=1), 21 (ether=1)
<b>Flammability (solid, gas)</b>	Flammable
<b>Upper / Lower flammability or explosive limits</b>	2 – 13 vol %, 50 – 335 g/m <sup>3</sup>
<b>Vapor pressure</b>	44 hPa, 229 hPa at 50°C
<b>Vapor Density</b>	2.1 at 20°C
<b>Relative Density</b>	0.88 g/mL
<b>Solubility(ies)</b>	completely soluble
<b>Decomposition temperature</b>	Not pertinent
<b>Critical temperature</b>	No data available
<b>Critical Pressure</b>	No data available
<b>Self-ignition temperature</b>	No data available
<b>Molecular Weight</b>	No data available
<b>Minimum ignition energy</b>	No data available
<b>Specific conductivity</b>	No data available
<b>Saturation concentration</b>	No data available
<b>VOC content</b>	No data available
<b>Other properties</b>	Gas/vapour heavier than air at 20°C. Clear. Volatile.

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Upon combustion: CO and CO <sub>2</sub> are formed. Violent to explosive reaction with (strong) oxidizer. Prolonged storage/in large quantities: may form peroxides.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No additional information available
<b>Conditions to avoid (e.g., static discharge, shock or vibration)</b>	Direct sunlight. Heat. High temperature. Incompatible materials. Open flame. Sparks
<b>Incompatible materials</b>	May react violently with alkalis. May react violently with acids.
<b>Hazardous decomposition products</b>	Carbon dioxide. Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

Not classified

<b>Isopropanol 70% v/v 67-63-0</b>	
LD50 oral rat	5045 mg/kg (5840 mg/kg bodyweight; Rat; Rat; Experimental value, 5840 mg/kg bodyweight; Rat; Rat; Experimental value)
LD50 dermal rabbit	12870 mg/kg (16.4; Rabbit; Rabbit; Experimental value, 16.4; Rabbit; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)

**Skin corrosion/irritation:** Not classified

**Serious eye damage/irritation:** Causes serious eye irritation.

**Respiratory or skin sensitisation:** Not classified

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

<b>Isopropanol 70% v/v 67-63-0</b>	
IARC group	3 – Not classifiable

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** May cause drowsiness or dizziness.

**Specific target organ toxicity (repeated exposure):** Not classified

**Aspiration hazard:** Not classified

**Symptoms/injuries after inhalation:** EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.

**Symptoms/injuries after skin contact:** Dry skin.

**Symptoms/injuries after eye contact:** Irritation of the eye tissue.

**Symptoms/injuries after ingestion:** AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Headache. Dilation of the blood

vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration.

Chronic symptoms:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:  
Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

## 12. ECOLOGICAL INFORMATION

### Toxicity

Ecology - general:	Classification concerning the environment: not applicable.
Ecology - air:	TA-Luft Klasse 5.2.5.
Ecology - water:	Ground water pollutant. Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to invertebrates (Daphnia) (EC50 (48h) > 1000 mg/l). Not harmful to algae (EC50 (72h) >1000 mg/l). Inhibition of activated sludge.

<b>Isopropanol 70% v/v 67-63-0</b>	
LC50 fishes 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)
LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)

### Persistence and degradability

<b>Isopropanol 70% v/v 67-63-0</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance
ThOD	2.40 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.49 % ThOD

### Bio-accumulative Potential

<b>Isopropanol 70% v/v 67-63-0</b>	
Log Pow	0.05 (Experimental value)
Bio-accumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### Mobility in soil



<b>Isopropanol 70% v/v 67-63-0</b>	
Surface tension	0.021 N/m (25 °C)

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste disposal recommendations:**

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

**Additional information:**

LWCA (the Netherlands): KGA category 03. Hazardous waste according to Directive 2008/98/EC.

### 14. TRANSPORT INFORMATION

In accordance with DOT

Transport document description:	UN1993 FLAMMABLE LIQUID, N.O.S. (Isopropanol), 3, II
UN-No.(DOT):	1993
DOT NA no.:	UN1993
DOT Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Department of Transportation (DOT) Hazard Classes:	3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT):	3 - Flammable liquid



Packing group (DOT):	II - Medium Danger
DOT Special Provisions (49 CFR 172.102):	IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55

C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / (1 + a (tr - tf))$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx):	4b;150
DOT Packaging Non Bulk (49 CFR 173.xxx):	202
DOT Packaging Bulk (49 CFR 173.xxx):	242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27):	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75):	60 L
DOT Vessel Stowage Location:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

**Additional Information**

Other information:	No supplementary information available.
State during transport (ADR-RID):	as liquid.

**ADR**

Transport document description:	UN1993 FLAMMABLE LIQUID, N.O.S. (Isopropanol), 3, II, (D/E)
Packing group (ADR):	II
Class (ADR):	3 - Flammable liquids
Hazard identification number (Kemler No.):	33
Classification code (ADR):	F1
Tunnel restriction code:	D/E

**Transport by sea**

UN-No. (IMDG):	1993
Class (IMDG):	3 - Flammable liquids
EmS-No. (1):	F-E

EmS-No. (2): S-D

**Air transport**

UN-No.(IATA): 1219

Class (IATA): 3 - Flammable Liquids

Packing group (IATA): II - Medium Danger

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## 15. REGULATORY INFORMATION

### US Federal regulations

<b>Isopropanol 70% v/v 67-63-0</b>
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Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)
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### International Regulations

#### Canada

<b>Isopropanol 70% v/v 67-63-0</b>
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WHMIS Classification Regulated
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#### EU-Regulations

No additional information available

#### Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11

Xi; R36

R67

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## 16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

### Disclaimer

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