# Safety Data Sheet

Issued Date: March 26, 2020 Revision Date: March 26, 2020 Version 1

## 1. IDENTIFICATION

**Product Identifier** 

Product Name F-617 Instant Hand Sanitizer

Other means of identification

Product Code F-617

Recommended use of the chemical and restrictions on use

Recommended Use Hand Sanitizer

Details of the supplier of the safety data sheet

Missouri Vocational Enterprises 2727 Highway K Bonne Terre, MO 63628 Phone: (573) 358-5516

**Emergency Telephone Number** 

INFOTRAC 1-800-535-5053 (North America) 1-352-323-3500 (International)

# 2. HAZARDOUS IDENTIFICATION

# Signal Word DANGER

Classification	Hazard Category
Flammable Liquids	2
Serious Eye Damage/Irritation	2A
Specific Target Organ Toxicity - Single Exposure	3

## Health Hazard Statement(s)

Highly flammable liquid and vapor. Causes serious eye irritation

May cause drowsiness or dizziness.

## Hazard Pictogram(s)





	HMIS	NFPA
Health	3	3
Flammability	3	3
Reactivity	0	0
PPE	В	N/A

**Hazard Ratings** 

## Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources – No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical and ventilating equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing mist or vapors.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Hand Sanitizer F-617 Revision Date: March 26, 2020

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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 advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use water fog, dry chemical, CO2, or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Store locked up.

Dispose of contents/container to an approved waste disposal plant.

#### Other Hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

# 3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name/Pure Substance	CAS #	Weight-%
Isopropanol	67-63-0	60-80
Glycerin	56-81-5	1-5
Hydrogen Peroxide	7722-84-1	0.1-1.0

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. FIRST-AID MEASURES

**General Advice** If you feel unwell, seek medical advice (show label where possible).

**Eye Contact** Immediately flush eyes with water for at least 15 minutes. Obtain medical attention if

irritation persists.

**Skin Contact** None required under normal conditions. If skin irritation or rash occurs: Get medical

advice/attention.

**Inhalation** None required under normal conditions.

Ingestion None required when used as intended. In the case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible).

## Most important symptoms and effects

Causes serious eye irritation. Symptoms may include redness, pain, tearing, and conjunctivitis. Direct skin contact may cause slight or mild, transient irritation. Inhalation of high concentrations may cause fatigue, difficulty breathing, headache, giddiness, mental confusion, and nausea. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

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

Treat symptomatically. This product is a CNS depressant.

## 5. FIRE-FIGHTING MEASURES

## **Extinguishing Media**

Suitable Extinguishing Media: Use water fog or fine spray, foams, carbon dioxide, or dry chemical. Do not use a solid water stream as it may scatter and spread fire.

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

## Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

## Flammability classification (OSHA 29 CFR 1910.106)

Flammable liquids – Category 2

## **Hazardous combustion products**

Carbon monoxide, carbon dioxide, toxic vapors, gases, or particulates.

# Protective equipment and precautions for firefighters

Protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet, with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Normal protective clothing (bunker gear) may not be adequate. A full-body encapsulating chemical protective suit may be necessary.

Special fire-fighting procedures: Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

**Personal precautions**None required under normal conditions.

**Environmental precautions** Avoid release to the environment.

## Methods and material for containment and clean up

**Methods for Containment** Wipe up with absorbent material (e.g. cloth, fleece).

**Special spill response procedures** None reported.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources – No smoking. Do not ingest or swallow. Observe good industrial hygiene practices.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in a cool, dry, well-ventilated area. Store away from incompatible materials. **Incompatible Materials** Strong oxidizing agents, strong acids, alkali metals, aluminum.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
Isopropanol	200 ppm TWA 400 ppm STEL	400 ppm PEL
Glycerin	N/A TWA N/A STEL	15 mg/m³ (mist total particulate) PEL 5 mg/m³ (mist, respirable fraction) PEL
Hydrogen Peroxide	1 ppm TWA	1 ppm PEL 1.4 mg/m³ PEL

**Exposure controls** 

Ventilation and engineering measures

None required under normal conditions.

Hand Sanitizer F-617 Revision Date: March 26, 2020

## Individual protection measures, such as personal protective equipment

Eye/Face Protection None required when used as intended.

Skin and Body Protection None required when used as indicated.

Respiratory Protection None required when used as indicated.

General Hygiene Considerations Observe good industrial hygiene practices.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical StateLiquidOdorAlcoholColorClear colorlessOdor Threshold3-60 ppm

<u>Property</u> <u>Values</u> <u>Remarks - Method</u>

**pH** 7.5-9.5

Melting Point/Freezing Point

-89 °C (-128.2 °F)

Boiling Point/Boiling Range

82.5 °C (180.5 °F)

Flach Point

13 °C (55.4 °F)

Flash Point 13 °C (-55.4 °F) Closed cup

**Evaporation Rate** N/A Flammability (Solid, Gas) N/A **Upper Flammability Limits** 12% **Lower Flammability Limits** 2.5% Vapor Pressure 24.7 Vapor Density N/A Specific Gravity 0.79 Water Solubility Complete

Solubility in other solvents

Soluble in most organic solvents (e.g. ethanol, acetone, diethyl ether,

chloroform)

Partition Coefficient 0.05

Auto-ignition Temperature399 °C (750.2 °F)Decomposition TemperatureNot applicableViscosity2.1 mPa.s @ 25°C

Volatiles (% by weight)

Volatile organic Compounds
(VOC's)

Absolute pressure of container

N/A

Absolute pressure of container N/A Flame projection length N/A

Other physical/chemical

comments

None known

# 10. STABILITY AND REACTIVITY

**Reactivity** Not normally reactive.

**Chemical Stability** Stable under recommended storage and handling conditions prescribed.

Conditions to Avoid

Keep away from excessive heat, open flames, sparks, and other possible

sources of ignition. Avoid contact with incompatible materials.

**Incompatible materials** Alkali metals, acids, aluminum, strong oxidizers.

**Hazardous Decomposition** 

Products

None known, refer to hazardous combustion products in Section 5.

Possibility of Hazardous Reactions Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Routes of entry inhalationYesRoutes of entry skin & eyeYesRoutes of entry ingestionYesRoutes of exposure skin absorptionNo

Potential Health Effects

Signs and symptoms of short-term (acute) exposure

Sign symptoms inhalation

May cause drowsiness or dizziness. Symptoms may include pain, headache,

nausea, vomiting, dizziness, drowsiness, and other central nervous system effects.

Sign and symptoms

ingestion

 $Ingestion\ may\ cause\ gastrointestinal\ irritation,\ nausea,\ vomiting,\ and\ diarrhea.$ 

Sign and symptom skin

None expected, when used as intended. Repeated exposure may cause skin

dryness or cracking.

Sign and symptom eyes

Causes serious eye irritation. Symptoms may include redness, pain, tearing, and

conjunctivitis.

Potential Chronic Health

**Effects** 

Prolonged or repeated skin contact may cause drying and irritation.

**Mutagenicity** Not expected to be mutagenic in humans.

**Carcinogenicity** No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.

Reproductive effects &

Teratogenicity

Not expected to have other reproductive effects.

**Sensitization to material** Not expected to be a skin or respiratory sensitizer.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous

Products Regulations) (WHMIS 2015). Classification:

Specific target organ effects

Specific target organ toxicity, single exposure – Category 3 (narcotic effects)

May cause drowsiness or dizziness.

Not classified as a specific target organ toxicity – repeated exposure.

Medical conditions

aggravated by overexposure

Pre-existing skin, eye, and respiratory disorders.

Synergistic materials None known.

Toxicological data

There is no available data for the product itself, only for the ingredients. See

below for individual ingredient acute toxicity data.

Chemical Name	LC50 (4hr)	LD50		
<u>Criemicai Name</u>	<u>inh,rat</u>	Oral, rat	Rabbit, dermal	
Isopropanol	17,000 ppm (41.8 mg/L) (vapor)	4720 mg/kg	12,890 mg/kg	
Glycerin	>2.75 mg/L (mist) (No mortality)	27,200 mg/kg	>18,700 mg/kg	
Hydrogen Peroxide	0.17 mg/L 4h (no deaths)	1193 mg/kg	>2000 mg/kg	

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for individual ingredient ecotoxicity data.

Ingradiants	CAS No	Toxicity to Fish				
Ingredients	CV2 140	LC50 / 96h	NOEC / 21 day	M Factor		
Isopropanol	67-63-0	9640 mg/L (Fathead minnow)	N/A	None		
Glycerin	56-81-5	51,000-57,000 mg/L (Rainbow trout)	N/A	None		
Hydrogen Peroxide	7722-84-1	16.4 mg/L (Fathead minnow)	N/A	None		

Ingredients	CAS No	Toxicity to Daphnia				
irigredients	CA3 NO	LC50 / 96h	NOEC / 21 day	M Factor		
Isopropanol	67-63-0	>10,000 mg/L/24hr	N/A	None		
isoproparior	07-03-0	(Daphnia magna)	N/A	l		
Glycerin	56-81-5	1851-2068 mg/L	N/A	None		
diyceiiii	20-01-2	(Daphnia magna)	N/A			
Hydrogen Peroxide	7722-84-1	2.4 mg/L Water Flea	N/A	None		

Ingradients	CAS No	Toxicity to Algae				
Ingredients	CV2 140	LC50 / 96h	NOEC / 21 day	M Factor		
Isopropanol	67-63-0	N/A	N/A	None		
Glycerin	56-81-5	77,712 mg/L/96hr (Green algae) (OSAR)	N/A	None		
Hydrogen Peroxide	7722-84-1	N/A	0.63 mg/L (Green algae)	None		

Persistence and degradability Readily biodegradable

**Bioaccumulation potential**Does not significantly accumulate in organisms. See the following data for ingredient information.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Isopropanol (CAS 67-63-0)	0.05	1.0
Hydrogen Peroxide (CAS 7722-84-1)	1.50	No bioaccumulation
Glycerin (CAS 56-81-5)	-1.76	3.162

**Mobility in soil**No data is available on the product itself.

Other Adverse Environmental effects

No data is available on the product itself.

# 13. DISPOSAL CONSIDERATIONS

See Section 7 (Handling and Storage) for further details. Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not cut,

weld, drill, or gring on or near this container.

weld, drill, or gring on or rical trills container.

Methods for Disposal

Dispose in accordance with all applicable federal, state, provincial, and local

regulations.

**RCRA** 

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

# 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label	
TDG	UN 1219	Isopropanol	3	II	Flammable, 3	
TDG Additional Information		s LIMITED QUANTITY when transp ceeding 30 kg gross mass.	ported in quan	tities no large	r than 1 Litre,	
49 CFR/DOT	UN1219	Isopropanol or Isopropyl alcohol	3	II	Flammable, 3	
49 CFR/DOT Additional Information	For limited quantit	For limited quantity and other exemptions see section 173-150				
ICAO/IATA	UN1219	Isopropanol or Isopropyl alcohol	3	II	Flammable, 3	
ICAO/IATA Additional Information	Refer to IATA/ICAO packaging instruction.					
IMDG	UN1219	Isopropanol or Isopropyl alcohol	3	II	Flammable, 3	
IMDG Additional Information	Refer to the IMDG	regulations for more information				

Special

hazards

precautions for user

Keep away from heat, sparks, and open flame – No smoking.

**Environmental** 

This product does not meet the criteria for an environmentally hazardous mixture, according

to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II

MARPOL 73/78 and the IBC Code

Not available.

# 15. REGULATORY INFORMATION

#### U.S. Federal Information

Components listed below are present on the following U.S. Federal chemical lists:

		CERC		SARA TITLE III: Sec. 302,	SARA TITLE III: Sec. 313, 40 CFR 372 Specific Toxic Chemical		
Ingredients	CAS#	TSCA Inventory	Reportable Quantity (RQ) (40 CFR 117.302)	Extremely Hazardous Substance, 40 CFR 355	Toxic Chemical	De minimus Concentration	
Isopropanol	67-63-0	Yes	None	None	Yes	1%	
Glycerin	56-81-5	Yes	None	None	No	N/Ap	
Hydrogen Peroxide	7722-84-1	Yes	N/Ap	1000 lb TPQ (Conentration >52%)	No	N/Ap	

target organ toxicity, single exposure.

Under SARA Sections 311 and 312, the EPA has estabilished threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

## US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients CAS #		California Proposition 65		State "Right to Know" Lists					
Ingredients	edients CAS#		Type of Toxicitiy	CA	MA	MN	Ŋ	PA	RI
Isopropanol	67-63-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Glycerin	56-81-5	No	N/Ap	No	Yes	Yes	No	Yes	Yes
Hydrogen Peroxide	7722-84-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

## **Canadian Information:**

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product. All ingredients are present on the DSL.

## **International Information:**

Components listed below are present on the following International Inventory List:

Ingredients	CAS#	European EINECs	Australia AICS	Phillippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Isopropanol	67-63-0	200-661-7	Present	Present	(2)-207	KE-29363	Present	HSR001180
Glycerin	56-81-5	200-289-5	Present	Present	(7)-338; (2)-242	KE-29297	Present	May be used as a single component chemical under an appropriate group standard
Hydrogen Peroxide	7722-84-1	231-765-0	Present	Present	(1)-419	KE-20204	Present	HSR001326 HSR001449 HSR001450 (dilution)

# 16. OTHER INFORMATION

# <u>Disclaimer</u>

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 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.

Issue Date: March 26, 2020 Revision Date: March 26, 2020

Revision Number: 1

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