



# SAFETY DATA SHEET

Print Date: May 20, 2020

## Section 1: Product & Company Information

**Product Identifier:** Hand Sanitizer Gel

### Other Means of Identification

Product Number: No data available.

### Recommended Use and Restrictions on Use

Recommended Use: Hand Sanitizer

Restrictions on Use: This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

### Manufacturer / Importer / Supplier / Distributor Information

**Company Name:** Pantero, Inc.  
**Address:** 164 Indusco Ct.  
Troy, MI 48083  
USA  
833.726.8376

**Emergency Phone Number:** Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

## Section 2: Hazards Identification

### GHS Hazard Classification(s)

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

### Physical Hazard(s)

Flammable, Liquids - 3

### Health Hazard(s)

(Corrosion) Damage/Irritation, Eye - 2A

### Environmental Hazard(s)

Not classified.

### Label Elements

#### Signal Word

**WARNING**

#### Hazard Symbol(s)



### Hazard Statement(s)

H226: Flammable liquid and vapor.

H319: Causes serious eye irritation.

### Precautionary Statements

#### General

Not applicable.

#### Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting/equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

**Storage**

P403 + P235: Store in a well-ventilated place. Keep cool.

**Disposal**

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Section 3: Composition/Information on Ingredients****Mixture**

Chemical Identity <sup>2</sup>	Common Name/Synonym(s)	CAS # <sup>3</sup>	Weight %	Impurity or Stabilizing Additive
Ethyl Alcohol SDA 40B	Ethanol	64-17-5	67.5 – 95.5	No
Isopropyl Alcohol	Isopropyl alcohol	67-63-0	2	No

- Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- “—”Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

**Section 4: First-Aid Measures****General Information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

**Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact**

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

**Eye Contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**Ingestion**

Call a physician or poison control center immediately. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms/effects, acute and delayed****Symptoms**

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

**Indication of immediate medical attention and special treatment needed****Hazards**

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**Treatment**

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

**Section 5: Fire-Fighting Measures**



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## General Fire Hazards

Highly flammable liquid and vapor.

## Suitable (and Unsuitable) Extinguishing Media

### Suitable Extinguishing Media

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

### Unsuitable Extinguishing Media

High volume water jet

## Specific Hazards Arising from the Chemical

Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

## Special Protective Equipment and Precautions for Firefighters

### Special Fire-Fighting Equipment Procedures

Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

### Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

## Section 6: Accidental Release Measures

### Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

### Methods and Materials for Containment and Clean-Up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is completely soluble in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

### Notification Procedures

Notify authorities if any exposure to the general public or environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

### Environmental Precautions

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved. Use appropriate containment of product and firefighting water to avoid environmental contamination. Prevent from spreading or entering drains, ditches, or rivers by using sand, earth, or other appropriate barriers.

## Section 7: Handling and Storage

### Precautions for Safe Handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. SDS for Personal Protective Equipment. Avoid contact with eyes. Avoid contact with skin.

### Conditions for Safe Storage, including any Incompatibilities

Keep away from heat and sources of ignition. Keep in a cool, well ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Value	Source
Ethyl alcohol	PEL	1900 mg/m3	US OSHA Table Z-1
		1000 ppm	US OSHA Table Z-1
Isopropyl Alcohol	PEL	980 mg/m3	US OSHA Table Z-1



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		400 ppm	US OSHA Table Z-1
Ethyl alcohol	STEL	1000 ppm	US. ACGIH Threshold Limit Values
Isopropyl Alcohol	STEL	400 ppm	US. ACGIH Threshold Limit Values
	TWA	200 ppm	US. ACGIH Threshold Limit Values

## Biological Limit Values

Chemical Identity	CAS #	Parameter	Value	Biological Specimen	Source
Isopropyl Alcohol	67-63-0	Acetone	40 mg/l	Urine	ACGIH – Biological Exposure Indices (BEI)
Remarks:					

## Appropriate Engineering Controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

## Individual protection measures, such as personal protective equipment (PPE)

### General Information

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

### Eye/Face Protection

No special protective equipment required.

### Skin Protection

#### Hand Protection

No special protective equipment required.

#### Other

Wear appropriate chemical resistant clothing.

### Respiratory Protection

No personal respiratory protective equipment normally required.

### Hygiene Measures

No specific measures identified.

## Section 9: Physical and Chemical Properties

### Appearance:

Physical State: Gel

Color: Opaque, white

**Odor:** Alcoholic

**Odor Threshold:** No data available.

**pH:** 6.3 – 8.5

**Melting Point/Freezing Point:** No data available.

**Initial Boiling Point and Boiling**

**Range:** No data available.

**Flash Point:** No data available.

**Evaporation Rate** (butyl acetate=1): No data available.

**Flammability (solid, gas):** Not applicable.

**Upper/Lower Limit on Flammability or Explosive Limits**

Flammability Limit – Upper: No data available.

Flammability Limit – Lower: No data available.

Explosive Limit – Upper: No data available.

Explosive Limit – Lower: No data available.

**Vapor Pressure:** No data available.

**Vapor Density** (air =1): No data available.

**Relative Density** (water=1): 0.869 - 0.873

### Solubility(ies):

Solubility in water: No data available.

Solubility (other): No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Auto-Ignition Temperature:** No data available.

**Decomposition Temperature:** No data available.

**Viscosity:** No data available.



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## Other Information:

Molecular Weight:

No data available.

Formula:

No data available.

## Section 10: Stability and Reactivity

### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### Chemical Stability

Material is stable under normal conditions.

### Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use.

### Conditions to Avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon oxides

## Section 11: Toxicological Information

### Information on routes of exposure

**Ingestion:** Health injuries are not known or expected under normal use.

**Inhalation:** Health injuries are not known or expected under normal use.

**Skin Contact:** Health injuries are not known or expected under normal use.

**Eye Contact:** Causes serious eye irritation.

### Information on Toxicological Effects

#### Acute Toxicity (List all possible routes of exposure)

##### Oral

Ethyl alcohol: LC50 (Rat) 117 - 125 mg/l, 4 Hours (Vapor)

Ethyl alcohol: LD50 (Rat) 10470 mg/kg

Isopropyl Alcohol: LD50 (Rat) 4710 mg/kg

##### Dermal

Isopropyl Alcohol: LD50 (Rabbit) 15,800 mg/kg

##### Inhalation

Ethanol: 4 h LC50 rat: 117 mg/l

##### Repeated Dose Toxicity

No data available.

### Skin Corrosion/Irritation

Prolonged skin contact may cause temporary irritation.

### Serious Eye Damage/Eye Irritation

Causes serious eye irritation.

### Respiratory/Skin Sensitization

Not a respiratory sensitizer

### Carcinogenicity

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Group 3, Not classifiable as to its carcinogenicity to humans.

#### US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Germ Cell Mutagenicity

#### In Vitro

No mutagenic components identified.



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## In Vivo

No mutagenic components identified.

## Reproductive Toxicity

None known.

## Specific Target Organ Toxicity – Single Exposure

None known.

## Specific Target Organ Toxicity – Repeated Exposure

None known.

## Aspiration Hazard

Not classified.

## Other Effects

None known.

## Section 12: Ecological Information

### Ecotoxicity

#### Acute Hazards to the Aquatic Environment

##### Fish

LC50 Pimephales promelas 9640 mg/l, 96 hours

##### Aquatic Invertebrates

Crustacea LC50 Daphnia magna > 10000 mg/l, 24 hours

Crustacea EC50 Daphnia magna > 100 mg/l, 21 days

##### Toxicity to Aquatic Plants

No data available.

#### Chronic Hazards to the Aquatic Environment

##### Fish

Fish: LC50 Freshwater fish 11200 mg/l, 24 hours

Fish: NOEC Freshwater fish 250 mg/l

##### Aquatic Invertebrates

Invertebrate: EC50 Freshwater invertebrate 5012 mg/l, 48 hours

Invertebrate: EC50 Marine water invertebrate 857 mg/l, 48 hours

##### Toxicity to Aquatic Plants

Algae: EC10 Freshwater algae 11.5 mg/l, 72 hours

Algae: EC50 Freshwater algae 275 mg/l, 72 hours

### Persistence and Degradability

#### Biodegradation

Ethanol: readily biodegradable.

Isopropyl Alcohol: rapidly degradable.

#### BOD/COD Ratio

Ethanol: Biodegradation: 84 %, Exposure time: 20 d

### Bioaccumulative Potential

#### Bioconcentration Factor (BCF)

No data available on bioaccumulation.

#### Partition Coefficient n-octanol / water (log Kow)

No data available.

### Mobility in Soil

No data available.

### Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Section 13: Disposal Considerations

### Disposal Instructions



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Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Contaminated Packaging

Handle contaminated packages in the same way as the substance itself. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

## Section 14: Transportation Information

### US Department of Transportation (DOT)

UN Number: UN1170  
UN Proper Shipping Name: Ethyl Alcohol  
Technical Name:  
Hazard Class: 3  
Subsidiary Hazard Risk: -  
Packing Group: II  
DOT Label/Placard Exemptions: Not determined  
Special Provisions:  
Packaging Exceptions: 49CFR 173.150  
Packaging Non-Bulk: 49CFR 173.212  
Packaging Bulk: 49CFR 173.242  
Reportable Quantity (RQ): 1,000lb (454kg)  
Marine Pollutant: No  
Poison Inhalation Hazard: No  
Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.  
Emergency Response Guidebook (ERG) #: 127

*Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*

## Section 15: Regulatory Information

### US Federal Regulations

#### Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

The following chemical(s) in this material are subject to reporting levels established by CERCLA:  
Isopropyl Alcohol 67-63-0

#### Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

#### Emergency Planning and Community Right-To-Know Act (EPCRA)

##### EPCRA 302 Extremely Hazardous Substance

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### EPCRA 304 Emergency Response Notification

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

##### EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard: Yes  
Sudden Release of Pressure: No  
Reactive: No  
Acute (Immediate) Health Hazard: Yes  
Chronic (Delayed) Health Hazard: No

##### EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

The following chemical(s) in this material are subject to reporting levels established by SARA Title III, Section 313:  
Isopropyl alcohol: CAS- 67-63-0, % by wt.- 3.32 – 4.78

### US State Regulations

#### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

*Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.*



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## Section 16: Other Information

### Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 2

Chronic Health Hazard: \*

Flammability: 3

Physical Hazard: 0

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

### National Fire Protection Association (NFPA 704) Rating

Health Hazard: 2

Fire Hazard: 3

Reactivity Hazard: 0

Special: N/A

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

Prepared By: Regulatory Manager

Version #: 001

Issue Date: 4/20/2020

Revision Date: -

Revisions: -

### Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

EC50 - Effective concentration, 50%

IDHL - Immediately Dangerous to Life and Health

Kg - Kilogram

l - Liter

lb - Pound

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

mg - milligram

ml - milliliter

N/A - Not Applicable

N/D - Not Determined

PEL - Permissible Exposure Limit

REL - Recommended Exposure Limit

STEL - Short-term Exposure Limit

TWA - Time weighted average

ACGIH - American Conference of Industrial Hygienists

AIHA - American Industrial Hygiene Association

BEI - Biological Exposure Indices

CAS - Chemical Abstracts Service

DOT - US Department of Transportation

EPA - US Environmental Protection Agency

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - US Occupational Health and Safety Administration

SARA - US EPA Superfund Amendments and Reauthorization Act

TSCA - US EPA Toxic Substances Control Act

UN - United Nations

### References

HSDB® - Hazardous Substances Data Bank

### Disclaimer

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