



SAFETY DATA SHEET

Issue Date 23-Mar-2020

Revision Date 23-Mar-2020

Version 1

1. IDENTIFICATION

Product identifier

Product Name Isopropyl Alcohol Antiseptic 75%
Topical Solution

Other means of identification

Product Code SF-1575
UN/ID no UN1219
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Hand Sanitizer. Non-sterile Solution
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address Worthen Industries, Inc
3 East Spit Brook Road
Nashua, NH 03060

Company Phone Number 1-800-WORTHEN (967-8436)

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300
Chemtrec (International): +1 703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Label elements

Emergency Overview

Danger

Hazard statements

Causes serious eye irritation

May cause respiratory irritation.
May cause drowsiness or dizziness
Highly flammable liquid and vapor



Appearance Translucent Liquid **Physical state** Liquid **Odor** Alcohol

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating / lighting/ / equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/eye protection/face protection
Keep cool

Precautionary Statements - Response

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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful if swallowed.

Unknown acute toxicity

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Common name Hand Sanitizer. Non-sterile Solution.

Chemical name	CAS No	Weight-%	Trade Secret
---------------	--------	----------	--------------

Isopropyl Alcohol	67-63-0	50 - 70	*
Deionized Water	7732-18-5	10 - 30	*
Glycerol	56-81-5	1 - 5	*
Hydrogen peroxide	7722-84-1	0.1 - 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention immediately. If breathing is difficult, oxygen may be given by a qualified person.
Ingestion	Do NOT induce vomiting. Call a physician and/or transport to emergency facility immediately. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms	Prolonged inhalation of high vapor concentration may result in a narcotic effect ranging from dizziness, nausea and headaches, to unconsciousness. Can cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain, shortness of breath and coughing.
-----------------	---

Indication of any immediate medical attention and special treatment needed

Note to physicians	There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration.
---------------------------	--

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Small Fire Dry chemical or CO2.

Large Fire Alcohol or all purpose foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient. Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Extremely flammable. In the event of fire, cool tanks with water spray. Keep product and empty container away from heat and sources of ignition. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Smoke and Soot, Thermal decomposition can lead to the evolution of irritant vapors, gases and/or fire

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters

Respiratory equipment should be worn to avoid inhalation of concentrated fumes. Water spray may be ineffective on the fire, but should be used to cool fire exposed containers and structures. Water spray should also be used to disperse vapors as reignition is possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

For emergency responders

Eliminate ignition sources, provide ventilation, dike the spill and add absorbant earth or sawdust to the spilled material. Clean-up personnel should wear rubber gloves and respiratory protection. Prevent spill from entering drains, sewers, streams, or other bodies of water. Notify authorities as required.

Environmental precautions

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 13 for additional disposal information.

Methods and material for containment and cleaning up

Methods for containment

Dike spill, absorb with inert material and collect for disposal.

Methods for cleaning up

Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with local regulations.

Packaging materials

Keep only in the original container/package in a cool well-ventilated place.

Incompatible materials

Alkaline materials, strong acids, and oxidizing materials

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	81 °C / 177.8 °F	
Flash point	12 °C / 53.6 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	12 %	
Lower flammability limit:	2 %	
Vapor pressure	5.7 kPa	at 20°C (68°F)
Vapor density	No information available	Heavier than air
Relative density	0.8 g/cc	at 20°C (68°F)
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content Less Water and Exempts	730.984 g/L
Product density	6.6 lbs/gal
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

Incompatible materials

Alkaline materials, strong acids, and oxidizing materials.

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Smoke and Soot, Thermal decomposition can lead to the evolution of irritant vapors, gases and/or fire

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	May be harmful by inhalation, ingestion, or skin absorption
Inhalation	Prolonged inhalation of high vapor concentration may result in a narcotic effect ranging from dizziness, nausea, and headaches, to unconsciousness. Can cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain, shortness of breath and coughing.
Eye contact	Avoid contact with eyes. May cause severe irritation, tearing, redness, burning sensation, and blurred vision.
Skin contact	Prolonged contact may cause redness and irritation.
Ingestion	Do not taste or swallow. Harmful if swallowed. Can cause gastrointestinal irritation, vomiting, nausea, and diarrhea. Aspiration of material into lungs either during ingestion or vomiting can cause chemical pneumonitis which can be fatal.

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Isopropyl Alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Glycerol 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m ³ (Rat) 1 h
Hydrogen peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m ³ (Rat) 4 h

Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Can dry and defat skin causing cracks, irritation and dermatitis.
Serious eye damage/eye irritation	Risk of serious damage to eyes.
Irritation	No information available.
Corrosivity	No information available.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide 7722-84-1	A3	Group 3	-	-

*ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure Chronic toxicity	No information available. Avoid repeated exposure.
Target Organ Effects	Eyes, Kidney, Respiratory system irritation, Skin.

Aspiration hazard Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2,662.13 mg/kg
ATEmix (dermal) 5,733.90 mg/kg
ATEmix (inhalation-dust/mist) 6.32 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product may contain components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Isopropyl Alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50	13299: 48 h Daphnia magna mg/L EC50
Glycerol 56-81-5	-	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	500: 24 h Daphnia magna mg/L EC50
Hydrogen peroxide 7722-84-1	2.5: 72 h Chlorella vulgaris mg/L EC50	18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static 16.4: 96 h Pimephales promelas mg/L LC50	18 - 32: 48 h Daphnia magna mg/L EC50 Static 7.7: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical name	Partition coefficient
Isopropyl Alcohol 67-63-0	0.05
Glycerol 56-81-5	-1.76

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

When disposing of unused contents the preferred options are to send to a licensed reclaimer or to permitted incinerators. Any disposal practice must be in compliance with federal, state and local regulations. Do not dump into sewers, on the ground, or into any body of water.

Contaminated packaging

Do not burn or use a cutting tool on the empty container. Triple rinse containers. May be offered for recycling, reconditioning, or puncture.

US EPA Waste Number

D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Isopropyl Alcohol 67-63-0	Toxic Ignitable
Hydrogen peroxide 7722-84-1	Toxic Corrosive Ignitable Reactive

14. TRANSPORT INFORMATION

DOT Regulated
UN/ID no UN1219
Proper shipping name Isopropyl Alcohol Solution
Hazard Class 3
Packing Group II
Emergency Response Guide Number 129

TDG Regulated
UN/ID no UN1219
Proper shipping name Isopropyl Alcohol Solution
Hazard Class 3
Packing Group II

IATA Regulated
UN/ID no UN1219
Proper shipping name Isopropyl Alcohol Solution
Hazard Class 3
Packing Group II

IMDG Regulated
UN/ID no UN1219
Proper shipping name Isopropyl Alcohol Solution
Hazard Class 3
Packing Group II
EmS-No F-E, S-D

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

TSCA 12(b) Export Notification

To the best of our knowledge, this product does not contain any chemical substances subject to 12(b) notification requirements.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	1.0

SARA 311/312 Hazard Categories

Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen peroxide 7722-84-1	-	1000 lb	-

US State Regulations

California Proposition 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol 67-63-0	X	X	X
Glycerol 56-81-5	X	X	X
Hydrogen peroxide 7722-84-1	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

HMIS Health hazards 1 Flammability 3 Physical hazards 0

Prepared By Worthen Industries, Inc.

Issue Date 23-Mar-2020

Revision Date 23-Mar-2020

Revision Note

No information available

Disclaimer

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 a 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.

End of Safety Data Sheet