

Section 1: Product and Company Identification**Manufacturer**

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Product Name: ATTIS CLEAN
Revision Date: 4/15/20
Version: A
SDS #: 1009
Common Name: Ethyl Alcohol Antiseptic
Product Type: Liquid

Recommended Use and Restrictions:**Identified Uses:**

Hand sanitizer to help reduce bacteria that potentially can cause disease.

Section 2: Hazards Identification

Classification of the substance or mixture: SKIN CORROSION/IRRITATION – Category 3
SKIN SENSITIZATION – Category 1

GHS label elements
Hazard pictograms:

Signal word: Warning
Hazard Statements: **FLAMMABLE LIQUID AND VAPOR**
NOT FOR CONSUMPTION
May cause central nervous system depression. May cause liver, kidney, heart damage.
Cause moderate skin irritation.
May cause an allergic skin reaction.

Precautionary Statements

Prevention: 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 precaution against static discharge.

Response: In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents / container to an approved waste disposal plant.
Other hazards that do not result in classification: Not known

Section 3: Composition/Information on Ingredients

Substance/Mixture: Mixture
Other means of ID: Not available
CAS number/other ID
CAS number:
EC number: Mixture
Product code: Not available

Ingredient Name	%	CAS number
Ethyl Alcohol	80	64-17-5
Glycerin	1.45	56-81-5
Hydrogen Peroxide	0.125	7722-84-1
Denatonium Benzoate	<0.005	3734-33-6
Sterilized Water	<19	7732-18-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4: First Aid Measures

Description of necessary first aid measures

Eye Contact: Seek medical aid. Flush continuously with water.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. DO NOT use mouth-to-mouth resuscitation.
Skin Contact: Seek medical aid. Wash clothing before reuse. Flush skin with soap and water.
Ingestion: Do not induce vomiting. IF victim is conscious and alert, give 2-4 cupfuls of water or milk. Never give liquid to an unconscious person.

Most important symptoms/effects, acute and delayed

Eye Contact: Causes severe eye irritation. May cause pain and sensitivity to light. May cause chemically induced conjunctivitis and corneal damage
Inhalation: Inhalation of high concentrations may cause central nervous system effects. These effects include dizziness, headaches, nausea, loss of consciousness, coma. May cause respiratory tract irritation. May cause narcotic effects in high concentrations.
Skin Contact: Causes moderate skin irritation. May cause cyanosis of the extremities.
Ingestion: May cause internal irritation with nausea, vomiting, and diarrhea. May cause systemic toxicity via acidosis. May cause depression, characterized by excitement, followed by headache, fatigue, dizziness, and nausea. Advanced stage symptoms include collapse, unconsciousness, coma, and death via respiratory failure.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treatment symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5: Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Water spray, dry chemical, CO₂, alcohol-resistant foams.

Unsuitable extinguishing media: High volume water jet.

Specific hazards arising from the chemical: Do not use solid water stream as it may spread fire.
Cool closed containers exposed to fire with water spray.
Flash possible over considerable distance.
May form explosive mixtures.
Exposure to decomposition products may be hazardous.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For emergency responders:

Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Keep people away from being upwind of spill/leak.
Material can create slippery ingredients.

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and clean up

Use non sparking tools.
Soak up in inert, absorbant materials.
Keep in suitable, sealed containers for disposal.
Clean contaminated floors thoroughly.

Section 7: Handling and Storage

Precautions for safe handling:

NO SMOKING. Do not get in eyes or on skin or clothing. Do not ingest. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue. Use caution in reuse of containers to prevent over exposure. All containers should be properly cleaned before reuse.

Conditions for safe storage

Including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8: Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits

Ingredient Name	Exposure Limits
Ethyl Alcohol	OSHA PEL (United States) 1,000 PPM 1,900 mg/m ³
Glycerin	OSHA None
Hydrogen Peroxide	OSHA 1 PPM airborne / 8 hour shift
Denatonium Benzoate	OSHA None
Water	OSHA None

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin Protection

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9: Physical and Chemical Properties

Appearance

Physical state:	Liquid
Color:	Clear
pH:	11-13
Melting point/freezing point:	(Ethyl Alcohol) -114.1 °C
Boiling point/Boiling range:	(Ethyl Alcohol) 78.5 °C
Flash point:	21.6 °C.
Evaporation rate:	Not available
Flammability (solid, gas):	Highly flammable as liquid or gas
Lower and upper explosive limits:	19% V, 1% V.
Density:	0.92
Viscosity:	Unknown

Section 10: Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid: Heat, flames, sparks.

Incompatible materials: Oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products are known.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

ACGIH A4 – Not classifiable as a human carcinogen

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

When consumed, ethyl alcohol can target the respiratory system, skin, eyes, central nervous system, liver, blood, and reproductive system.

Specific target organ toxicity (repeated exposure)

When consumed, ethyl alcohol can target the respiratory system, skin, eyes, central nervous system, liver, blood, and reproductive system.

Information on the likely

routes of exposure: Routes of entry anticipated: Dermal, oral, inhalation
Routes of entry not anticipated: n/a

Components:

Ethyl Alcohol:

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg
Acute inhalation toxicity LC50 (Rat) 124.7 mg/l
 Exposure time 4 h
Acute dermal toxicity LD50 (Rat) >5,000 mg/kg

Section 12: Ecological Information

Toxicity

Product/Ingredient Name	Result	Species	Exposure
Ethyl Alcohol	LC50 > 1000 mg/l	Pimephales promelas (fathead minnow)	96 hours
	EC50 > 1000 mg/l	Daphnia magna (water flea)	48 hours
	NOEC – 9.6 mg/l	Daphnia magna (water flea)	9 days
	EC50 – 275 mg/l	Chlorella vulgaris (fresh water algae)	72 hours
	EC50 – 32.1 mg/l	Photobacterium phosphoreum	0.25 hour

Persistence and degradability

Product/Ingredient Name	Test	Result	Dose	Inoculum
Ethyl alcohol	BOD	Readily biodegrades	-	20 days

Bioaccumulative potential

Ethyl alcohol – partition coefficient: n-octanol/water – log Pow -0.35

Mobility in soil

Soil/water partition coefficient (Koc) There is no data available.

Other adverse effects: No known significant effects or critical hazards.

Section 13: Disposal Considerations

Disposal Methods: Dispose in accordance with local regulations.

Section 14: Transport Information

	DOT	IMDG	IATA
UN number	UN 1987	UN 1987	UN 1987
UN proper shipping name	Alcohols	Alcohols	alcohols
Transport hazard class(es)	3	3	3

Packing group	III	III	III
Environmental hazards	No.	No.	No.
Specific precautions for user	Not available.	Not available.	Not available.
Additional information	-	Labels – 3; EmS F-E, S-D	Cargo 366

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code:

Not available.

Section 15. Regulatory Information

Safety, health and environmental regulations specific for the product:

Ethyl alcohol, a component of this product, is on the TSCA registry.

US Federal Regulations: **United States inventory (TSCA 8b):** All components are listed or exempted.
SARA 302/304/311/312: Fire Hazard, acute health hazard.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Ethyl Alcohol
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
 Ethyl alcohol: Fire hazard, Acute health hazard, Delayed (chronic) health hazard.

Clean Air Act Section 112

(b) Hazardous Air

Pollutants (HAPS): Not listed

Clean Air Act Section 602

Class I Substances: Not listed

Clean Air Act Section 602

Class II Substances: Not listed

DEA List I Chemicals

(Precursor Chemicals): Not listed

DEA List II Chemicals

(Essential Chemicals): Not listed

State regulations

The following components appear on one or more of the state hazardous material lists:

Component	CAS#	CA	MA	NY	NJ	PA
Ethyl Alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes
Hydrogen Peroxide	7722-84-1	Yes	Yes	Yes	Yes	Yes

California Prop. 65

The product does not contain any chemicals known to the state of California to cause cancer, birth, or other reproductive effects.

Section 16: Other Information

HMIS Rating (Scale 0-4) Health: 1 Fire: 3 Physical hazards: 0

NFPA Rating (Scale 0-4) Health: 1 Fire: 3 Reactivity: 0

History

Key to abbreviations: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.