SDS#433 ITEM#383202

Safety Data Sheet

Section 1: Identification

GHS Product Identifier	FDA Hand Sanitizer
Product Name	FDA Hand Sanitizer
Product Type	Finished Product- Consumer (Retail) Use Only
Product Code	

Details of the supplier of the safety data sheet

Manufacturer CMC:	Continental Manufacturing Chemist, Inc. 1501 Blue Sky Blvd Huxley, Iowa 50124 www.cmchemist.com
Emergency telephone number	(515)597-2000
Manufacturer	(515)795-2000

Recommended use of the chemical 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.

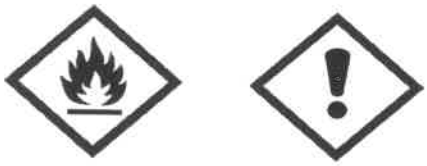
Section 2: Hazard Identification

GHS Classification

Flammable liquids	Category 3
Eye Irritation	Category 2A

GHS label elements

Hazard pictograms



Signal Word: Warning

Precautionary Statements:

Prevention:

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

P233 Keep container tightly closed. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:

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

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Other Hazards

None known

Section 3: Composition/Information on Ingredients				
Chemical Name	Identifiers – CAS #	%(weight)	Comments	
DI Water	CAS NO 7732-18-5	21.55%		
Glycerol	Cas NO 56-81-5	2.145%		
Hydrogen Peroxide	CAS NO 69-72-7	0.351%		
sda 40b 200	CAS NO 64-17-5	75.970%	Mixture	

Section 4: First-Aid Measures

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical Health Hazard

If inhaled: If inhaled remove to fresh air. Get medical attention if symptoms occur

In case of skin contact: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

Section 5: Fire-Fighting Measures

Suitable extinguishing media:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2) water jet Specific
Unsuitable extinguishing media	High Volume water jet
Specific hazards during firefighting :	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air
Hazardous combustion products:	Carbon oxides Silicon oxides
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Section 6: Accidental Release Measures

Personal precautions	Remove all sources of ignition
Protective equipment and emergency procedures	Use personal protective equipment. Follow safe handling advice and PPE recommendations.
Environmental precautions:	Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot be contained.

Methods, materials for containment, cleaning up:

Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapors/mists with a water spray jet.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.

Clean up remaining materials from spill with suitable a absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and Storage

Technical measures:

See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation:

Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling:

Do not breathe vapors or spray mist.

Do not swallow.

Do not get in eyes.

	Avoid prolonged or repeated contact with skin.
	Handle in accordance with good industrial hygiene and safety practice.
	Non-sparking tools should be used. Keep container tightly closed.
	Keep away from heat and sources of ignition.
	Take precautionary measures against static discharges.
	Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage:	Keep in properly labeled containers. Keep tightly closed.
	Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Materials to avoid	Do not store with the following product types:
	Strong oxidizing agents
	Organic peroxides
	Flammable solids
	Pyrophoric liquids
	Pyrophoric solids
	Self-heating substances and mixtures
	Substances and mixtures which in contact with water emit flammable gases
	Explosives
	Gases

Section 8: Exposure Controls/Personal Protection

Ingredients with workplace control parameters

Ingredients	Cas No	Value Type	Control parameters/ Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900mg/m3	NIOSH REL

Engineering measures

Minimize workplace exposure concentrations
Use only in an area equipped with explosionproof exhaust ventilation
Use with local exhaust

Personal protective equipment

Respiratory protection:

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.

Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material: Impervious gloves

Material: Flame retardant gloves

Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the

	product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Eye protection:	Wear the following personal protective equipment: Safety goggles
Skin and body protection:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.).
Hygiene measures:	Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-us

Section 9: Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description

Physical Form	Gel/Liquid	**Appearance/Description**	
Color	Clear	**Odor**	Characteristic Alcohol odor
Taste	Data Not Available	**Particulate Type**	Data Not Available
Particulate Size	Data Not Available	**Aerosol Type**	Data Not Available
Odor Threshold	Data Not Available	**Physical and Chemical Properties**	Gel
General Properties	Data Not Available		Data Not Available
Boiling Point	Data Not Available	**Melting Point**	Data Not Available
Decomposition Temperature	Data Not Available	**Heat of Decomposition**	Data Not Available
pH	Range 7.2	**Specific Gravity/Relative Density**	0.86g/ml
Density	Data Not Available	**Bulk Density**	Data Not Available

Water Solubility	Data Not Available	**Solvent Solubility**	Data Not Available
Viscosity	liquid	**Explosive Properties**	Data Not Available
Oxidizing Properties	Data Not Available		Data Not Available
Volatility	Data Not Available		Data Not Available
Vapor Pressure	Data Not Available	**Vapor Density**	Data Not Available
Evaporation Rate	Data Not Available	**VOC (Wt.)**	Data Not Available
VOC (Vol.)	Data Not Available	**Volatiles (Wt.)**	Data Not Available
Volatiles (Vol.)	Data Not Available		
Flammability	Data Not Available		
Flash Point	Data Not Available	**UEL**	Data Not Available
LEL	Data Not Available	**Auto ignition**	Data Not Available
Self-Accelerating Decomposition Temperature (SADT)	Data Not Available	**Heat of Combustion**	Data Not Available
Burning Time	Data Not Available	**Flame Duration**	Data Not Available
Flame Height	Data Not Available	**Flame Extension**	Data Not Available
Ignition Distance	Data Not Available	**Flammability (solid, gas)**	Data Not Available
Environment	Data Not Available		
Half-Life	Data Not Available	**Octanol/Water Partition coefficient**	Data Not Available
Coefficient of water/oil distribution	Data Not Available	**Bioaccumulation Factor**	Data Not Available
Bioconcentration Factor	Data Not Available	**Biochemical Oxygen Demand BOD/BOD5**	Data Not Available
Chemical Oxygen Demand	Data Not Available	**Persistence**	Data Not Available
Degradation	Data Not Available		

Section 10: Stability and Reactivity	
Reactivity:	**Not classified as a reactivity hazard.**
Chemical stability:	**Stable under normal conditions**
Possibility of hazardous reactions:	**Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.**
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Oxidizing agents
Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes

Inhalation

Skin Contact

Ingestion

Eye Contact

Acute Toxicity

Not classified based on available information

Product

Acute oral toxicity	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation menthol

Ingredients:

Ethanol:

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

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:

Species:	Rabbit
Result	Irritation to eyes reversed 21 days
Method	OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Product:	Product does not cause skin sensitization

Ingredients:

Ethanol:

Test Type:	Local lymph node assay (LLNA)
Routes of exposure:	Skin contact
Species: Mouse Result:	negative

Germ cell mutagenicity	Not classified based on available information

Ingredients:

Ethanol:

Genotoxicity in vitro	Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative

Carcinogenicity

Not classified based on available information

Reproductive toxicity

Not classified based on available information

Ingredients:

Ethanol

Effects on fertility	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative STOT-single exposure Not classified based on available information

Repeated dose toxicity

Ethanol

: Ethanol: Species:

Rat NOAEL: 2,400 mg/kg

Application Route: Ingestion

Exposure time: 2 y

Aspiration toxicity

Not classified based on available information.

SECTION 12. Ecological Information

Ingredients:

Ethanol:

Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l E Exposure time: 48 h
Toxicity to algae	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
Persistence and degradability	
Ethanol:	
Biodegradability	Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d

SECTION 13. Disposal Considerations

Disposal methods Waste from residues:	Dispose of in accordance with local regulations.
Contaminated packaging:	Dispose of as unused product.

SECTION 14 Transportation Information

International Regulation

UNRTDG

UN number: UN 1987

Proper shipping name: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

Class: 3

Packing group: III Labels: 3

IATA-DGR

UN/ID No.: UN 1987

Proper shipping name: Alcohols, n.o.s. (Ethanol, Propan-2-ol)

Class: 3

Packing group: III

Labels:

Flammable Liquids

Packing instruction (cargo aircraft): 366

Packing instruction (passenger aircraft): 355

IMDG-Code

UN number: UN 1987

Proper shipping name: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)

Class: 3

Packing group: III

Labels: 3 EmS Code: F-E, S-D

Marine pollutant: no

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

Not applicable for product as supplied.

Domestic regulation 49 CFR

UN/ID/NA number: UN 1987

Proper shipping name: ALCOHOLS, N.O.S.

Class: 3

Packing group: III

Labels:

FLAMMABLE LIQUID

ERG Code: 127

Marine Pollutant No

SECTION 15. Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	Fire Hazard
	Acute Health Hazard
SARA 302:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:
US State Regulations	
Pennsylvania Right to Know	**Ethanol 75-79%** **64-17-5**
New Jersey Right to Know	**Ethanol 75-79%** **64-17-5**

California Prop 65

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

Inventories

The ingredients of this product are reported in the following inventories:

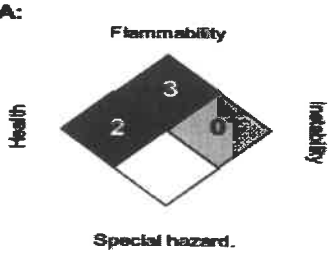
AICS: All ingredients listed or exempt

SECTION 16 Other Information

Created 03/27/2020

Further Information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	:	8-hour time weighted average
Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/