

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/06/2020 Reviewed on 04/06/2020

1 Identification

- · Product Identifier
- · Trade Name: NuRinse® Hand Sanitizer
- · Relevant identified uses of the substance or mixture and uses advised against:

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.

Product Description:

For personal use

Satisfies FDA/WHO/CDC guidelines for Hand Sanitizer.

WHO Formula #1, which contains 80% v/v of Ethanol and an improved Moisturizer over the WHO recommendation, while still meeting all the requirements of the WHO.

- · Details of the Supplier of the Safety Data Sheet:
- · Manufacturer/Supplier:

NuGeneration Technologies, LLC (dba NuGenTec) Redefining Chemistry®, NuRinse®, NuShield™ 1155 Park Avenue Emeryville, CA 94608

salesteam@nugentec.com 1-888-996-8436 or 1-707-820-4080 for product information

Emergency telephone number:

PERS Emergency Response: US and Canada - 1-800-633-8253, International 1-801-629-0667

2 Hazard(s) Identification

· Classification of the substance or mixture:



Flam. Liq. 3 H226 Flammable liquid and vapor.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements:
- Hazard pictograms:



- · Signal word: Warning
- · Hazard statements:

H226 Flammable liquid and vapor.

H320 Causes eye irritation.

· Precautionary statements:

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.

P264 Wash thoroughly after handling.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

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

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

0 % of the mixture consists of component(s) of unknown toxicity.

- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 1 Fire = 3

REACTIVITY 0 Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:		
CAS: 64-17-5 RTECS: KQ 6300000	Ethanol v/v Flam. Liq. 2, H225; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	60-90%
CAS: 56-81-5 RTECS: MA 8050000	Glycerol	≤2.5%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: If skin irritation occurs, consult a doctor.
- · After eye contact:

Rinse opened eye for several minutes under running water.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

- · After swallowing: If swallowed and symptoms occur, consult a doctor.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.

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· Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture:

Do not use a solid water stream as it may scatter and spread fire.

Cool closed containers exposed to fire with water spray.

Flash back possible over considerable distance.

May form explosive mixtures in air.

Exposure to decomposition products may be a hazard to health.

Carbon oxides

- Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Use personal protective equipment.

Ensure adequate ventilation.

Remove all sources of ignition.

Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Material can create slippery conditions.

Environmental precautions:

Dilute with plenty of water.

Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Retain and dispose of contaminated wash water.

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

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:		
64-17-5	Ethanol v/v	1,800 ppm
56-81-5	Glycerol	45 mg/m³
7722-84-1	Hydrogen peroxide solution	10 ppm
PAC-2:		
64-17-5	Ethanol v/v	3300* ppm
		(Contd. on page



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56-81-5	Glycerol	180 mg/m³
7722-84-1	Hydrogen peroxide solution	50 ppm
· PAC-3:		
64-17-5	Ethanol v/v	15000* ppm
56-81-5	Glycerol	1,100 mg/m³
7722-84-1	Hydrogen peroxide solution	100 ppm

7 Handling and Storage

- · Handling
- Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

For personal protection see section 8.

Keep away from heat and flame.

Use with local exhaust ventilation.

Avoid contact with eyes.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles:

Take measures to prevent the build up of electrostatic charge.

Keep in properly labelled containers.

Keep containers tightly closed in a dry, cool and wellventilated place.

Store in accordance with the particular national regulations.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:

· Com	· Components with occupational exposure limits:		
64-17	7-5 Ethanol v/v		
PEL	Long-term value: 1900 mg/m³, 1000 ppm		
REL	Long-term value: 1900 mg/m³, 1000 ppm		
TLV	Short-term value: 1880 mg/m³, 1000 ppm		
56-8	I-5 Glycerol		
PEL	Long-term value: 15* 5** mg/m³ mist; *total dust **respirable fraction		
TLV	TLV withdrawn-insufficient data human occup. exp.		

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- Personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.



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Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

- · Breathing equipment: Not required.
- · Protection of hands: Not required.
- · Material of gloves: Not applicable.
- Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- · Eye protection: Not required.
- · Limitation and supervision of exposure into the environment: None

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Gel or liquid
Color: Clear
Odor: Alochol-like
Odor threshold: Not determined.

• pH-value @ 20 °C (68 °F): 3.8-5.2

· Change in condition

Melting point/Melting range:Not determined.Boiling point/Boiling range:≥78 °C (≥172.4 °F)

Flash point: 25 °C (77 °F)
 Flammability (solid, gaseous): Not applicable.
 Ignition temperature: ≥425 °C (≥797 °F)
 Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

· Explosion limits:

Lower: ≥2 Vol % **Upper:** ≤12 Vol %

Vapor pressure @ 20 °C (68 °F): ≤59 hPa (≤44.3 mm Hg)
 Density @ 20 °C (68 °F): 0.785 g/cm³ (6.5508 lbs/gal)

Relative density: Not determined.
 Vapor density: Not determined.
 Evaporation rate: Not determined.

· Solubility in / Miscibility with:

Water: Fully miscible.Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

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· Solvent content:

Organic solvents:81.5 %VOC content:80.00 %Solids content:0.0 %

• Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Product is stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: Heat, flame and ignition sources.
- · Incompatible materials: Strong oxidizing agents
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

64-17-5 Et	hanol v/v	
Oral	LD50	7,060 mg/kg (Rat) Remarks: Lungs, Thorax, or Respiration: Other changes. Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors Blood: Lymphomas including Hodgkin's disease. Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence
Inhalative	LC50/4 h	20,000 mg/l (Rat)
	LC50/96 hours	12,900-15,300 mg/l (Trout)
56-81-5 G	lycerol	
Oral	LD50	12,600 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rabbit)
Inhalative	LC50/96 hours	>50,000 mg/l (Trout)

- · Primary irritant effect:
- On the skin: No irritating effect.
- · On the eye: Irritating effect.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- · Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):

The IARC (the International Agency for Research on Cancer) concluded that ethanol found alcoholic beverages to be Group 1 - Carcinogenic to humans. All other instances it is not consider carcinogenic.

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64-17-5	Ethanol v/v	1
7722-84-1	Hydrogen peroxide solution	3
· NTP (Natio	onal Toxicology Program):	
None of the	e ingredients are listed.	
· OSHA-Ca	(Occupational Safety & Health Administration):	
None of the	e ingredients are listed.	

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

64-17-5 Ethanol v/v

EC50 34,900 mg/l (Daphnia)

- · Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- · Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packaging
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

· UN-Number:

· **DOT, ADR/ADN, IMDG, IATA** UN1987

· UN proper shipping name:

· **DOT** Alcohols, n.o.s. (Ethanol)

· ADR/ADN UN1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL

ALCOHOL))

· IMDG ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL))

· IATA ALCOHOLS, N.O.S. (ETHANOL)

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· Transport hazard class(es):

· DOT



· Class: 3 Flammable liquids

· Label: 3

· ADR/ADN



· Class: 3 (F1) Flammable liquids

· Label:

· IMDG, IATA



· *Class:* 3 Flammable liquids

· Label: 3

· Packing group:

· DOT, ADR/ADN, IMDG, IATA

· *Environmental hazards:* Not applicable.

· Special precautions for user: Warning: Flammable liquids

· Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-D · Stowage Category A

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations: On passenger aircraft/rail: 60 L

On cargo aircraft only: 220 L

· ADR/ADN

· Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· IMDG

· Limited quantities (LQ): 5L

Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL

ALCOHOL)), 3, III

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Safety Data Sheet (SDS)
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15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture: · SARA (Superfund Amendments and Reauthorization):

· SARA (Su _l	perfund Amendments and Reauthorization):	
	55 (extremely hazardous substances):	
7722-84-1	Hydrogen peroxide solution	
· Section 31	3 (Specific toxic chemical listings):	
None of the	e ingredients are listed.	
· TSCA (Tox	ric Substances Control Act):	
64-17-5	Ethanol v/v	ACTI
	Glycerol	ACTI
7722-84-1	Hydrogen peroxide solution	ACTI
Hazardous	s Air Pollutants	
	e ingredients are listed.	
	Proposition 65:	
	known to cause cancer:	
None of the	e ingredients are listed.	
	known to cause reproductive toxicity for females:	
None of the	e ingredients are listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	e ingredients are listed.	
Chemicals	known to cause developmental toxicity:	
64-17-5 Et	hanol v/v	
New Jerse	y Right-to-Know List:	
64-17-5	Ethanol v/v	
56-81-5	Glycerol	
7722-84-1	Hydrogen peroxide solution	
New Jerse	y Special Hazardous Substance List:	
64-17-5	Ethanol v/v	CA, MU, TE,
7722-84-1	Hydrogen peroxide solution	CO, MU, R3
Pennsylva	nia Right-to-Know List:	
	Ethanol v/v	
	Glycerol	
7722-84-1	Hydrogen peroxide solution	
Pennsylva	nia Special Hazardous Substance List:	
7722-84-1	Hydrogen peroxide solution	

· Carcinogenic categories:

oar cirrog.	ene categories.	
· EPA (Env	ironmental Protection Agency):	
None of th	e ingredients are listed.	
· TLV (Thre	shold Limit Value established by ACGIH):	
64-17-5	Ethanol v/v	A3
7722-84-1	Hydrogen peroxide solution	A3





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· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



· Signal word: Warning

· Hazard statements:

H226 Flammable liquid and vapor.

H320 Causes eye irritation.

· Precautionary statements:

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.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.

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

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- · Date of last revision/ revision number: 04/06/2020 / 4
- · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health





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OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106