SAFETY DATA SHEET

Hand Sanitizer

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hand Sanitizer

Other means of identification : Not applicable.

Recommended use : Hand Sanitizer

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : No dilution information provided.

Company Jacob Rieger & Company, LLC

2700 Guinotte Ave.

Kansas City, Missouri 64120

USA

(no other domestic locations)

(no international locations)

Emergency telephone

number

: 816-702-7801

Issuing date : 03.24.2020

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2 Eye irritation : Category 2A

Specific target organ toxicity - : Category 3 (Central Nervous System)

single exposure

GHS Label element

Hazard pictograms





Signal Word : Danger

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Hazard Statements : Highly flammable liquid and vapour.

Causes serious eye irritation. May cause drowsiness or dizziness.

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 precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.

Response:

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/ physician if you feel unwell.

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. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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

a well-ventilated place. Keep cool. Store locked up.

Disposal:

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

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration: (%)

ethanol 64-17-5 60 - 100 glycerin 56-81-5 1 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact : 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.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms : See Section

and effects, both acute and

: See Section 11 for more detailed information on health effects and

symptoms.

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delayed

Section: 5. FIREFIGHTING MEASURES

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 during

firefighting

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance.

Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Hazardous combustion

products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulphur oxides

Oxides of phosphorus

Special protective equipment

for firefighters

: Use personal protective equipment.

Specific extinguishing

methods

: 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

accordance with local regulations. In the event of the and/of explosion

do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections

7 and 8.

Environmental precautions : Do not allow

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach

a waterway.

Section: 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Wash hands thoroughly after handling. Open

drum carefully as content may be under pressure.

Conditions for safe storage

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

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containers.

Storage temperature : 0 °C to 50 °C

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
ethanol	64-17-5	TWA OEL-RL	1,000 ppm 1,900 mg/m3	ZA OEL
ethanol	64-17-5	TWA	1,000 ppm 1,880 mg/m3	ARE OEL
glycerin	56-81-5	TWA OEL-RL (Mist)	10 mg/m3	ZA OEL
glycerin	56-81-5	TWA (Mist)	10 mg/m3	BH OEL
glycerin	56-81-5	TWA (Mist)	10 mg/m3	ARE OEL

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Wear eye protection/face protection.

Hand protection : Wear the following personal protective equipment:

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection : No special protective equipment required.

Respiratory protection : When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Wash face, hands and any exposed skin thoroughly after

handling.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, colourless
Odour : alcohol-like
pH : Not applicable.

Flash point : 18 °C

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and

boiling range

: > 100 °C

Evaporation rate : no data available

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Flammability (solid, gas) : no data available Upper explosion limit : no data available Lower explosion limit : no data available Vapour pressure : no data available Relative vapour density : no data available

: 1.0 - 1.02 Relative density Water solubility soluble

: no data available Solubility in other solvents Partition coefficient: n-

octanol/water

: no data available

Auto-ignition temperature : no data available Thermal decomposition : no data available Viscosity, kinematic : no data available : no data available Explosive properties

Oxidizing properties The substance or mixture is not classified as oxidizing.

Molecular weight : no data available VOC : no data available

Section: 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Acids

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be produced

such as:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye irritation.

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

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

Inhalation : Inhalation may cause central nervous system effects.

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Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Irritation

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : Dizziness, Drowsiness

Toxicity

Product

Acute oral toxicity : no data available
Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye : no data available
irritation

Respiratory or skin

sensitization

: no data available

Carcinogenicity : no data available
Reproductive effects : no data available
Germ cell mutagenicity : no data available
Teratogenicity : no data available
STOT - single exposure : no data available
STOT - repeated exposure : no data available
Aspiration toxicity : no data available

Components

Acute oral toxicity : ethanol

LD50 rat: 10,470 mg/kg

glycerin

LD50 rat: 18,300 mg/kg

Components

Acute inhalation toxicity : ethanol

4 h LC50 rat: 117 mg/l Test atmosphere: vapour

Components

Acute dermal toxicity : ethanol

LD50 rabbit: > 15,800 mg/kg

glycerin

LD50 rabbit: 23,000 mg/kg

Section: 12. ECOLOGICAL INFORMATION

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Ecotoxicity

Environmental Effects : Harmful to aquatic life.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : ethanol

96 h LC50 Pimephales promelas (fathead minnow): > 100 mg/l

glycerin

96 h LC50 Fish: 855 mg/l

Persistence and degradability

Readily biodegradable.

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods : Do not contaminate ponds, waterways or ditches with chemical or

used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste

disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and

federal regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

UN number : 1170

UN proper shipping name : ETHANOL SOLUTION

Transport hazard class(es) : 3
Packing group : II
Environmental hazards : No
Special precautions for user : None

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Hand Sanitizer

Air transport (IATA)

: 1170 **UN** number

Description of the goods : Ethanol solution

Class : 3 : 11 Packing group Environmentally hazardous : No

Sea transport (IMDG/IMO)

UN number : 1170

Description of the goods : ETHANOL SOLUTION

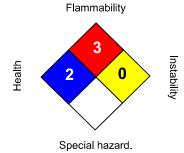
Class : 3 Packing group : 11 Marine pollutant No

Section: 15. REGULATORY INFORMATION

The FDA has temporarily authorized beverge alcohol producers to produce hand sanitizers during the COVID-19 global pandemic.

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

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