

# KORKAY<sup>®</sup> Hand Sanitizer Gel

KORKAY<sup>®</sup> Hand Sanitizer uses the FDA Approved formula for safe, clean, disinfecting of your hand with only a short 20 second contact time.



- National Drug Code #78320-282-01
- Safe 80% Topical Solution Antiseptic Hand Rub
- Ready to use. No dilution required

*Available in 1, 5 & 55 Gallon Containers*

Distributed By:



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Manufactured By:



Kokomo IN 46901  
[www.korkay.com](http://www.korkay.com) / MSDS available online

## 1 Identification

### - Product identifier

- **Trade name:** Hand Sanitizer

- **Synonyms:** Alcohol Antiseptic 80% Hand Rub

- **Part number:** 29201

### - Details of the supplier of the safety data sheet

#### - **Manufacturer/Supplier:**

Tate Soaps & Surfactants, Inc  
1500 North Webster St.  
Kokomo, IN 46901  
Telephone: 765-868-4488  
Website: www.korkay.com

#### - **Emergency telephone number:**

United States: 1-800-262-8200 CHEMTREC

## 2 Hazard(s) identification

### - Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

### - Label elements

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

#### - Hazard pictograms



GHS02 GHS07

#### - **Signal word** Warning

#### - **Hazard statements**

H226 Flammable liquid and vapor.  
H319 Causes serious eye irritation.

#### - **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P280 Wear eye protection / face protection.  
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.  
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.

### - Other hazards

#### - **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.



### 3 Composition/information on ingredients

**- Chemical characterization: Mixtures**

**- Description:** Mixture of the substances listed below with nonhazardous additions.

**- Dangerous components:**

CAS: 64-17-5 ethanol	Flam. Liq. 2, H225; Carc. 1A, H350	70 – 79%
CAS: 67-63-0 isopropanol	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	5 – 9%
CAS: 56-81-5 glycerol		1 – 4%

### 4 First-aid measures

**- Description of first aid measures**

**- After inhalation:** Supply fresh air; consult doctor in case of complaints.

**- After skin contact:** Generally the product does not irritate the skin.

**- After eye contact:** Rinse opened eye for several minutes under running water.

**- After swallowing:** If symptoms persist consult doctor.

**- Information for doctor:**

**- Most important symptoms and effects, both acute and delayed** No further relevant information available.

**- Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**- Extinguishing media**

**- Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**- Special hazards arising from the substance or mixture** No further relevant information available.

**- Advice for firefighters**

**- Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

**- Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

**- Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**- Methods and material for containment and cleaning up:** 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.

### 7 Handling and storage

**- Handling:**

**- Precautions for safe handling** No special measures required.

**- 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:** No special requirements.

**- 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 item 7.

### - Control parameters

#### - Components with limit values that require monitoring at the workplace:

##### CAS: 64-17-5 ethanol

PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm

##### CAS: 67-63-0 isopropanol

PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm
BEI	

##### CAS: 56-81-5 glycerol

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> mist; *total dust **respirable fraction
TLV	TLV withdrawn-insufficient data human occup. exp.

#### - Ingredients with biological limit values:

##### CAS: 67-63-0 isopropanol

BEI	40 mg/L
Medium:	urine
Time:	end of shift at end of workweek
Parameter:	Acetone (background, nonspecific)

- **Additional information:** The lists that were valid during the creation were used as basis.

### - Exposure controls

#### - Personal protective equipment:

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
Nitrile rubber, NBR

#### - Penetration time of glove material

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

#### - Eye protection:



Tightly sealed goggles

#### - Body protection: Protective work clothing

## 9 Physical and chemical properties

### - Information on basic physical and chemical properties

#### - General Information

##### - Appearance:

- <b>Form:</b>	Liquid
- <b>Color:</b>	According to product specification
- <b>Odor:</b>	Alcohol-like
- <b>Odor threshold:</b>	Not determined.

- **pH-value at 20 °C (68 °F):** 6.5 – 7.5

#### - Change in condition

- <b>Melting point/Melting range:</b>	Undetermined.
- <b>Boiling point/Boiling range:</b>	≥ 78 °C (≥ 172.4 °F)



- <b>Flash point:</b>	25 °C (77 °F)
- <b>Flammability (solid, gaseous):</b>	Not applicable.
- <b>Decomposition temperature:</b>	Not determined.
- <b>Auto igniting:</b>	Product is not selfigniting.
- <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- <b>Explosion limits:</b>	
- Lower:	≥ 3.5 Vol %
- Upper:	≤ 15 Vol %
- <b>Vapor pressure at 20 °C (68 °F):</b>	≤ 59 hPa (≤ 44.3 mm Hg)
- <b>Density at 20 °C (68 °F):</b>	~ 0.8387 g/cm³ (~ 6.99895 lbs/gal)
- <b>Relative density</b>	Not determined.
- <b>Vapor density</b>	Not determined.
- <b>Evaporation rate</b>	Not determined.
- <b>Solubility in / Miscibility with</b>	
- Water:	Fully miscible.
- <b>Partition coefficient (n-octanol/water):</b>	Not determined.
- <b>Viscosity:</b>	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- <b>Solvent content:</b>	
- Organic solvents:	84.5 %
- Water:	15.5 %
- <b>VOC content:</b>	81.00 % ~ 679.3 g/l / ~ 5.67 lb/gal
- <b>Solids content:</b>	0.0 %
- <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

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

- **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Inhalative LC50/4 h 500 mg/l (rat)

CAS: 64-17-5 ethanol

Oral LD50 7,060 mg/kg (rat)

Inhalative LC50/4 h 20,000 mg/l (rat)

CAS: 67-63-0 isopropanol

Oral LD50 5,045 mg/kg (rat)

Dermal LD50 12,800 mg/kg (rabbit)

Inhalative LC50/4 h 30 mg/l (rat)

CAS: 56-81-5 glycerol

Oral LD50 12,600 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 64-17-5 ethanol

1

CAS: 67-63-0 isopropanol

3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **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:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it 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:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **UN-Number**

- **DOT, IMDG, IATA**

UN1987

- **UN proper shipping name**

- **DOT**

Alcohols, n.o.s. (Ethanol, Isopropanol)

- **IMDG**

ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), ISOPROPANOL (ISOPROPYL ALCOHOL))

- **IATA**

ALCOHOLS, N.O.S. (ETHANOL, ISOPROPANOL (ISOPROPYL ALCOHOL))

- **Transport hazard class(es)**

- **DOT**



- **Class**

3 Flammable liquids

- **Label**

3

- **IMDG, IATA**



- **Class**

3 Flammable liquids



- Label	3
- Packing group - DOT, IMDG, IATA	III
- 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
- 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 "Model Regulation":	UN 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, III

#### \*15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture	
- Sara	
- Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
CAS: 67-63-0 isopropanol	
- TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
- Hazardous Air Pollutants	
None of the ingredients is listed.	
- Proposition 65	
- Chemicals known to cause cancer:	
None of the ingredients is listed.	
- Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
- Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
- Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
- Carcinogenic categories	
- EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
- TLV (Threshold Limit Value established by ACGIH)	
CAS: 64-17-5 ethanol	A3
CAS: 67-63-0 isopropanol	A4
- NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affairs

- **Contact:** Safety, Health and Environmental Affairs

- **Classification System:**

- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

- **NFPA ratings (scale 0 - 4)**

2	3	0	Health = 2
			Fire = 3
			Reactivity = 0

- **Date of preparation / last revision** 05/12/2020 / 4

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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)

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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Carc. 1A: Carcinogenicity – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- **Disclaimer**

- The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance the need that information is current, applicable and suited to the circumstances of use. Korkay Cleaning Products assumes no responsibility for injury to vendee or third party person proximity caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Korkay Cleaning Products assumes no responsibility for injury by abnormal use of this material even if reasonable safety procedures are followed.