

# Material Safety Data Sheet



## ACTIGEL HAND SANITIZER

### Section 1. Chemical product and company identification

Trade name : ACTIGEL HAND SANITIZER  
Product use : Skin antiseptic  
Supplier :  
Kay Chemical Company  
8300 Capital Drive  
Greensboro NC 27409  
1-800-529-5458 (Customer Service)

Code : 924681-13  
Date of issue : 28-August-2008

**EMERGENCY HEALTH INFORMATION: 1-800-304-0824**  
**Outside United States and Canada CALL 0-303-592-1709**

### Section 2. Composition, information on ingredients

#### United States

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
ethanol	64-17-5	>50
propan-2-ol	67-63-0	5 - 20

### Section 3. Hazards identification

Physical state : Liquid. [Gel]  
Emergency overview : WARNING!

FLAMMABLE LIQUID AND VAPOR.  
MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Keep away from heat, sparks and flame.

#### Potential acute health effects

Eyes : Slightly irritating to the eyes.  
Skin : No known significant effects or critical hazards.  
Inhalation : No known significant effects or critical hazards.  
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

### Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.  
Skin contact : In case of contact, immediately flush skin with plenty of water. Wash clothing before reuse.  
Inhalation : If inhaled, remove to fresh air.  
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

### Section 5. Fire fighting measures

Flash point : 26.6667 °C (Closed cup)  
Hazardous thermal decomposition products : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

Fire-fighting media and instructions : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Use water spray to keep fire-exposed containers cool. Dike area of fire to prevent runoff.

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**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** : No special measures required.

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Methods for cleaning up** : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal.

## Section 7. Handling and storage

**Handling** : Avoid contact with eyes. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash thoroughly after handling.

**Storage** : Keep out of reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).  
Do not store above the following temperature: 25°C

## Section 8. Exposure controls/personal protection

**Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

### Personal protection:

**Eyes** : No protective equipment is needed under normal use conditions.

**Hands** : No protective equipment is needed under normal use conditions.

**Skin** : No protective equipment is needed under normal use conditions.

**Respiratory** : A respirator is not needed under normal and intended conditions of product use.

### Name

### Exposure limits

ethanol

#### **ACGIH TLV (United States, 1/2007).**

TWA: 1880 mg/m<sup>3</sup> 8 hour(s).

TWA: 1000 ppm 8 hour(s).

#### **OSHA PEL (United States, 11/2006).**

TWA: 1900 mg/m<sup>3</sup> 8 hour(s).

TWA: 1000 ppm 8 hour(s).

propan-2-ol

#### **ACGIH TLV (United States, 1/2007).**

STEL: 400 ppm 15 minute(s).

TWA: 200 ppm 8 hour(s).

#### **OSHA PEL (United States, 11/2006).**

TWA: 980 mg/m<sup>3</sup> 8 hour(s).

TWA: 400 ppm 8 hour(s).

## Section 9. Physical and chemical properties

Physical state	: Liquid. [Gel]
Color	: Colorless.
Odor	: Alcohol-like.
pH	: 7 to 8 [Conc. (% w/w): 100%]
Relative density	: 0.84 to 0.94
Viscosity	: Dynamic: 3250 cP

## Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Potential acute health effects

Eyes	: Slightly irritating to the eyes.
Skin	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

### Potential chronic health effects

Target organs	: Contains material which may cause damage to the following organs: blood, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
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## Section 12. Ecological information

## Section 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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Consult your local or regional authorities.

## Section 14. Transport information

**Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.**

### UN Classification

UN number	UN1170
Proper shipping name	ETHANOL SOLUTION
Class	3
Packing group	III

See shipping documents for specific transportation information.

## Section 15. Regulatory information

HCS Classification : Flammable liquid

## Section 16. Other information

Hazardous Material Information System (U.S.A.) :	Health	*	1
	Flammability		3
	Physical hazards		0

Date of issue : 28-August-2008.

Responsible name : Regulatory Affairs

Date of previous issue : 29-May-2008.

### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.