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

 Name
 CAS number
 % by weight

 ethanol
 64-17-5
 >50

 propan-2-ol
 67-63-0
 5 - 20

Section 3. Hazards identification

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

overview

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 may include the following materials:

carbon dioxide carbon monoxide

Fire-fighting media and

decomposition products

instructions

: Use dry chemical, CO₂, water spray (fog) or foam.

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

runoff.

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> 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.

for fire-fighters

Special protective equipment : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

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:

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

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

Name

Exposure limits

ethanol ACGIH TLV (United States, 1/2007).

TWA: 1880 mg/m3 8 hour(s). TWA: 1000 ppm 8 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 1900 mg/m³ 8 hour(s). TWA: 1000 ppm 8 hour(s).

ACGIH TLV (United States, 1/2007). propan-2-ol

> STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 980 mg/m³ 8 hour(s). TWA: 400 ppm 8 hour(s).

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Section 9. Physical and chemical properties

: Liquid. [Gel] **Physical state** : Colorless. Color Odor Alcohol-like.

На : 7 to 8 [Conc. (% w/w): 100%]

Relative density : 0.84 to 0.94 Viscosity : Dynamic: 3250 cP

Section 10. Stability and reactivity

: The product is stable. Under normal conditions of storage and use, hazardous **Stability**

polymerization will not occur.

products

Hazardous decomposition: 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

Eves : Slightly irritating to the eyes.

: No known significant effects or critical hazards. Skin : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Ingestion

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.

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.

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

UN1170 **UN number**

ETHANOL SOLUTION Proper shipping name

Class **Packing group** Ш

See shipping documents for specific transportation information.

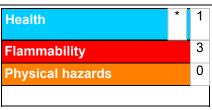
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Section 15. Regulatory information

HCS Classification : Flammable liquid

Section 16. Other information

Hazardous Material Information System (U.S.A.)



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.