



## SAFETY DATA SHEET

## Aktive HAND SANITIZER

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HANDESE HAND SANITIZER

Other means of identification : Not applicable

Recommended use : Hand Sanitizer

Restrictions on use : None.

Product dilution information : Product is sold ready to use.

Company : Tier One Formulations,  
11c 972 3rd Ave  
Dallas, TX USA 75226  
1-337-842-0634

Emergency telephone : 1-337-842-0634 (US/Canada), 1-337-842-0634 (outside US)

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## SECTION 2. HAZARDS IDENTIFICATION

## GHS Classification

Flammable liquids : Category 3

Eye irritation : Category 2A

## GHS Label element

Hazard pictograms



Signal Word : Warning

Hazard Statements : Flammable liquid and vapor.  
Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
**Response:**  
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 for extinction.  
**Storage:**  
Store in a well-ventilated place. Keep cool.  
**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

Handese Hand Sanitizer  
By: Tier One Formulations

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| Chemical Name     | CAS-No. | Concentration (%) |
|-------------------|---------|-------------------|
| ethanol           | 64-17-5 | 60 - 100          |
| Isopropyl Alcohol | 67-63-0 | 5 - 10            |

#### SECTION 4. FIRST AID MEASURES

|                                                             |                                                                                |
|-------------------------------------------------------------|--------------------------------------------------------------------------------|
| In case of eye contact                                      | : Rinse with water.                                                            |
| In case of skin contact                                     | : Rinse with water.                                                            |
| If swallowed                                                | : Rinse mouth. Get medical attention if symptoms occur.                        |
| If inhaled                                                  | : Get medical attention if symptoms occur.                                     |
| Protection of first-aiders                                  | : No special precautions are necessary for first aid responders.               |
| Notes to physician                                          | : Treat symptomatically.                                                       |
| Most important symptoms and effects, both acute and delayed | : See Section 11 for more detailed information on health effects and symptoms. |

#### SECTION 5. FIRE-FIGHTING 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 fire fighting          | : Fire Hazard<br>Keep away from heat and sources of ignition.<br>Flash back possible over considerable distance.<br>Beware of vapors accumulating to form explosive concentrations.<br>Vapors can accumulate in low areas.   |
| Hazardous combustion products                  | : Decomposition products may include the following materials:<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>Sulfur oxides<br>Oxides of phosphorus                                                                             |
| Special protective equipment for fire-fighters | : 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 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 contact with soil, surface or ground water.                                                                                         |

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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 : Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

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 containers.

Storage temperature : 0 °C to 35 °C

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Ingredients       | CAS-No. | Form of exposure | Permissible concentration | Basis     |
|-------------------|---------|------------------|---------------------------|-----------|
| ethanol           | 64-17-5 | TWA              | 1,000 ppm<br>1,900 mg/m3  | NIOSH REL |
|                   |         | TWA              | 1,000 ppm<br>1,900 mg/m3  | OSHA Z1   |
| Isopropyl Alcohol | 67-63-0 | TWA              | 200 ppm                   | ACGIH     |
|                   |         | STEL             | 400 ppm                   | ACGIH     |
|                   |         | TWA              | 400 ppm<br>980 mg/m3      | NIOSH REL |
|                   |         | STEL             | 500 ppm<br>1,225 mg/m3    | NIOSH REL |
|                   |         | TWA              | 400 ppm<br>980 mg/m3      | OSHA Z1   |

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : No specific measures identified.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                                         |                       |
|-----------------------------------------|-----------------------|
| Appearance                              | : gel                 |
| Color                                   | : clear               |
| Odor                                    | : alcoholic, lavender |
| pH                                      | : 6,6 - 7,5, 100 %    |
| Flash point                             | : 24 °C closed cup    |
| Odor Threshold                          | : No data available   |
| Melting point/freezing point            | : No data available   |
| Initial boiling point and boiling range | : No data available   |
| Evaporation rate                        | : No data available   |
| Flammability (solid, gas)               | : No data available   |
| Upper explosion limit                   | : No data available   |
| Lower explosion limit                   | : No data available   |
| Vapor pressure                          | : No data available   |
| Relative vapor density                  | : No data available   |
| Relative density                        | : 0.84 - 0.844        |
| Water solubility                        | : No data available   |
| Solubility in other solvents            | : No data available   |
| Partition coefficient: n-octanol/water  | : No data available   |
| Autoignition temperature                | : No data available   |
| Thermal decomposition                   | : No data available   |
| Viscosity, kinematic                    | : No data available   |
| Explosive properties                    | : No data available   |
| Oxidizing properties                    | : No data available   |
| 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             | : None known.                                                                                                                                    |
| Hazardous decomposition products   | : Decomposition products may include the following materials:<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>Sulfur oxides<br>Oxides of phosphorus |

### SECTION 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of exposure : 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 : Health injuries are not known or expected under normal use.

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 : No symptoms known or expected.

#### Toxicity

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Acute inhalation toxicity : 4 h Acute toxicity estimate : > 40 mg/l

Acute dermal toxicity : No data available

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : No data available

Respiratory or skin sensitization : No data available

#### Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

#### Ingredients

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Acute dermal toxicity : ethanol  
LD50 Rabbit: 15,800 mg/kg

Isopropyl Alcohol  
LD50 Rabbit: 12,870 mg/kg

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

### Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

### Ingredients

Toxicity to fish : ethanol  
96 h LC50 Fish: 11,000 mg/l

Isopropyl Alcohol  
96 h LC50 Fish: 9,640 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : 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 re-use empty containers.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D001 (Ignitable)

## SECTION 14. TRANSPORT INFORMATION

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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 (DOT)

UN number : 1170  
Description of the goods : Ethanol solutions  
Class : 3  
Packing group : III  
Environmentally hazardous : no

#### Sea transport (IMDG/IMO)

UN number : 1170  
Description of the goods : ETHANOL SOLUTION  
Class : 3  
Packing group : III  
Marine pollutant : no

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Fire Hazard  
Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

#### The ingredients of this product are reported in the following inventories:

**1907/2006 (EU) :**  
not determined

**Switzerland. New notified substances and declared preparations :**  
not determined

**United States TSCA Inventory :**  
On TSCA Inventory

**Canadian Domestic Substances List (DSL) :**  
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS) :**  
not determined

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**New Zealand. Inventory of Chemical Substances :**  
not determined

**Japan. ENCS - Existing and New Chemical Substances Inventory :**  
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI) :**  
not determined

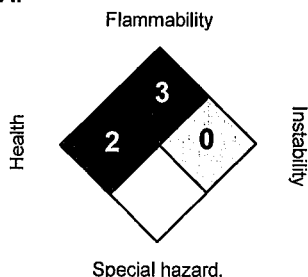
**Korea. Korean Existing Chemicals Inventory (KECI) :**  
not determined

**Philippines Inventory of Chemicals and Chemical Substances (PICCS) :**  
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC) :**  
On the inventory, or in compliance with the inventory

### 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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Prepared by : Regulatory Affairs

**REVISED INFORMATION:** Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.