SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sani 62 Instant Hand Sanitizer

Manufacturer or supplier's details
Company name of supplier : Products Chemical Co.
Address : 6400 Herman Avenue, Cleveland Ohio 44102
Telephone : 216-281-1155
Emergency telephone number : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use
Recommended use : Hand Sanitizer
Restrictions on use : This is a personal care that is safe for consumers and other users under normal and reasonably foreseeable use. consumer products, specifically defined by regulations around the world. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

Prepared by :

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>clear, colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
</tr>
</tbody>
</table>

GHS Classification
Flammable liquids : Category 2
Eye irritation : Category 2A

GHS label elements
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Hazard pictograms:

Signal word: Warning

Hazard statements:
H26 Flammable liquid and vapor.
H319 Causes serious eye irritation.

Precautionary statements:

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P230 Keep container tightly closed.
P240 Ground/bonded 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.
P280 Wear eye protection/face protection.

Response:
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 dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.

Potential Health Effects

Primary Routes of Entry:
Inhalation
Eye contact
Skin contact

Aggravated Medical Condition:
None known.

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>67-63-0</td>
<td>&gt;= 62 - &lt; 75</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If inhaled: If inhaled, remove to fresh air. If symptoms persist, call a physician.

In case of skin contact: Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.

In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice.

If swallowed: If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention.

Most important symptoms and effects, both acute and delayed: Causes serious eye irritation.

Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. May form explosive mixtures in air. Carbon oxides

Hazardous combustion products: Carbon oxides

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Special protective equipment for firefighters**
- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**
- Use personal protective equipment.
- Ensure adequate ventilation.
- Remove all sources of ignition.
- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.
- Material can create slippery conditions.

**Environmental precautions**
- Discharge into the environment must be avoided.
- Prevent further leakage or spillage if safe to do so.
- Retain and dispose of contaminated wash water.
- Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up**
- Non-sparking tools should be used.
- Soak up with inert absorbent material.
- Suppress (knock down) gases/vapours/mists with a water spray jet.
- Keep in suitable, closed containers for disposal.
- Clean contaminated floors and objects thoroughly while observing environmental regulations.

**SECTION 7. HANDLING AND STORAGE**

**Advice on safe handling**
- For personal protection see section 8.
- Keep away from heat.
- Use with local exhaust ventilation.
- Avoid contact with eyes.

**Conditions for safe storage**
- Take measures to prevent the build up of electrostatic charge.
- Keep in properly labelled containers.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Store in accordance with the particular national regulations.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>1,000 ppm 1,880 mg/m³</td>
<td>CA AB OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>CA BC OEL</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th></th>
<th>TWAEV</th>
<th>STEL</th>
<th>CA QC OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,000 ppm</td>
<td>1,000 ppm</td>
<td>1,880 mg/m³</td>
</tr>
</tbody>
</table>

**Biological occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Samplig time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift at end of workweek</td>
<td>40 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

**Personal protective equipment**

- **Respiratory protection**: No personal respiratory protective equipment normally required.
- **Hand protection**
  - **Remarks**: No special protective equipment required.
- **Eye protection**: Wear face-shield and protective suit for abnormal processing problems.
- **Skin and body protection**: No special measures necessary provided product is used correctly.
- **Protective measures**: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Ensure that eye flushing systems and safety showers are located close to the working place.
- **Hygiene measures**: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance**: liquid
- **Color**: clear, colorless
## Odor
: Alcohol

## Odor Threshold
: No data available

## pH
: 6.0 - 9.2, (20 °C)

## Melting point/freezing point
: No data available

## Initial boiling point and boiling range
: No data available

## Flash point
: 25.00 °C

## Evaporation rate
: No data available

## Flammability (solid, gas)
: Not applicable

## Upper explosion limit
: No data available

## Lower explosion limit
: No data available

## Vapor pressure
: No data available

## Relative vapor density
: No data available

## Density
: 0.8933 g/cm³

## Solubility(ies)

### Water solubility
: soluble

## Partition coefficient: n-octanol/water
: Not applicable

## Auto-ignition temperature
: No data available

## Thermal decomposition
: The substance or mixture is not classified self-reactive.

## Viscosity

### Viscosity, kinematic
: 1000 - 35000 mm²/s (20 °C)

## Explosive properties
: Not explosive

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

### SECTION 10. STABILITY AND REACTIVITY

#### Reactivity
: Not classified as a reactivity hazard.

#### Chemical stability
: Stable under normal conditions.

#### Possibility of hazardous reactions
: Vapours may form explosive mixture with air.

#### Conditions to avoid
: Heat, flames and sparks.
Incompatible materials:
- Strong oxidizing agents
- Flammable solids
- Self-reactive substances and mixtures
- Water-reactive substances

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:
- Inhalation
- Eye contact
- Skin contact

Acute toxicity:
Not classified based on available information.

**Components:**

**Ethyl Alcohol:**
- Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
- LC50 (Rat): 72.6 mg/l
  - Exposure time: 4 h
  - Test atmosphere: vapour
- Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation:
Not classified based on available information.

**Components:**

**Ethyl Alcohol:**
- Species: Rabbit
  - Result: No skin irritation

Serious eye damage/eye irritation:
Causes serious eye irritation.

**Components:**
Ethyl Alcohol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Components:
Ethyl Alcohol:
Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Germ cell mutagenicity
Not classified based on available information.

Components:
Ethyl Alcohol:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Test species: Mouse
Application Route: Intraperitoneal injection
Result: negative

Carcinogenicity
Not classified based on available information.

Components:
Ethyl Alcohol:
Species: Rat
Application Route: inhalation (vapour)
Exposure time: 104 weeks
Method: OECD Test Guideline 451
Result: negative
Reproductive toxicity
Not classified based on available information.

**Components:**

**Ethyl Alcohol:**
- Effects on fertility: Test Type: Two-generation reproduction toxicity study  
  Species: Rat  
  Application Route: Ingestion  
  Result: negative
- Effects on foetal development: Test Type: Embryo-foetal development  
  Species: Rat  
  Application Route: Ingestion  
  Result: negative

**STOT - single exposure**
Not classified based on available information.

**Components:**

**Ethyl Alcohol:**
Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**
Not classified based on available information.

**Repeated dose toxicity**

**Components:**

**Ethyl Alcohol:**
Species: Rat  
NOAEL: 5000 ppm  
Application Route: Inhalation (vapour)  
Exposure time: 104 w  
Method: OECD Test Guideline 413

**Aspiration toxicity**
Not classified based on available information.
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

**Components:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>Toxicity to bacteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Exposure time: 96 h</td>
<td>EC50 (Daphnia magna (Water flea)): &gt; 10,000 mg/l Exposure time: 24 h</td>
<td>EC50 (Pseudomonas putida): &gt; 1,050 mg/l Exposure time: 16 h</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

**Components:**

**Ethyl Alcohol:** Biodegradability

**Bioaccumulative potential**

**Components:** Ethyl Alcohol

<table>
<thead>
<tr>
<th>Part</th>
<th>Result</th>
<th>Biodegradation</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>Readily biodegradable.</td>
<td>84 %</td>
<td>20 d</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Log Pow</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>-0.35</td>
</tr>
<tr>
<td>log Pow</td>
<td>0.05</td>
</tr>
</tbody>
</table>
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Mobility in soil
No data available

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : Dispose of in accordance with local regulations.
Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR
UN/ID No. : UN 1993:
Proper shipping name Ethyl Alcohol, (Propan-2-ol):
Class
Packing group : 3
Packing instruction (cargo aircraft) : III
Packing instruction (passenger aircraft) : 366
IMDG-Code
UN number : UN 1993
Proper shipping name Ethyl Alcohol, (Propan-2-ol):
Class
Packing group : 3
Labels : III
EmS Code : 3
Marine pollutant : F-E, S-D
National Regulations : no

TDG
UN number : UN 1993
Proper shipping name ALCOHOL Propan-2-ol):
Class : 3
Packing group : II
Labels : 3
ERG Code : 127
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION
Sani 62 Instant Hand Sanitizer

Version 1.0

WHMIS Classification

- B2: Flammable liquid
- D2B: Toxic Material Causing Other Toxic Effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The components of this product are reported in the following inventories:

- TSCA: On TSCA Inventory
- AICS: On the inventory, or in compliance with the inventory
- DSL: On the inventory, or in compliance with the inventory
- ENCS: On the inventory, or in compliance with the inventory
- ISHL: On the inventory, or in compliance with the inventory
- KECl: On the inventory, or in compliance with the inventory
- PICCS: On the inventory, or in compliance with the inventory
- IECSC: On the inventory, or in compliance with the inventory
- NZIoC: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

The information provided in this 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.