1. PRODUCT AND COMPANY IDENTIFICATION

Product name  Swisher Low Temp Rinse
Product code  40013-5
Recommended Use  Rinse Aid For Machine Warewashing

Distributor  Swisher Hygiene Inc.
4725 Piedmont Row Drive,
Suite 400,
Charlotte, NC 28210

Chemical Emergency Phone Number  800-424-9300 (Chemtrec)
Company Emergency Phone Number  800-444-4138

2. HAZARDS IDENTIFICATION

Emergency Overview  The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance  Clear Liquid  Physical state  liquid.  Odor  Mild

Potential Health Effects

Acute toxicity
- Eyes  Irritating to eyes
- Skin  Irritating to skin
- Inhalation  No known effect based on information supplied
- Ingestion  No known effect based on information supplied

Chronic Effects  No known effect based on information supplied

Aggravated Medical Conditions  None known.

Environmental hazard  See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>&lt; 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES
Eye contact
Flush with flowing water for 15 minutes & see physician.

Skin contact
Wash with water for 15 minutes. See physician if irritation persists.

Inhalation
Move to fresh air

Ingestion
Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY; NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Notes to physician
Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties
Not flammable

Flash point
none

Suitable Extinguishing Media
Use water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.

Hazardous Combustion Products
If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides.

Explosion Data

Sensitivity to Mechanical Impact
none

Sensitivity to Static Discharge
none

Specific hazards arising from the chemical
Use water spray to cool adjacent fire exposed containers. Product will not burn but may splatter if temperature exceeds boiling point.

Protective Equipment and Precautions for Firefighters
Avoid exposure to fumes or vapors.

NFPA
Health Hazard 0
Flammability 0
Stability 0
Physical and chemical hazards -

HMIS
Health Hazard 1
Flammability 0
Physical Hazard 0
Personal protection A

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Ensure adequate ventilation

Environmental precautions
Try to prevent the material from entering drains or water courses

Methods for Containment
Prevent further leakage or spillage if safe to do so

Methods for cleaning up
Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls.

7. HANDLING AND STORAGE

Advice on safe handling
KEEP OUT OF REACH OF CHILDREN CAUTION Store upright in original closed container

Technical measures/Storage conditions
Keep containers tightly closed in a dry, cool and well-ventilated place

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
**Exposure Guidelines**

Review Section 3 & 4 for Exposure Guidelines.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>STEL: 400 ppm</td>
<td>TWA: 400 ppm</td>
<td>IDLH: 2000 ppm</td>
</tr>
<tr>
<td>67-63-0</td>
<td>TWA: 200 ppm</td>
<td>TWA: 980 mg/m³</td>
<td>TWA: 400 ppm TWA: 980 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 500 ppm</td>
<td>STEL: 1225 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering Measures**

Showers
Eyewash stations
Ventilation systems

**Personal Protective Equipment Institutional Environment**

Eye/Face Protection  Safety glasses are suggested when using this product in heavy use and institutional environments.
Consumer Environments Care should be taken to avoid Eye contact.
Skin and body protection Rubber gloves
Respiratory protection Unnecessary in open institutional environment.
Hygiene measures Practice good personal hygiene. Wash after handling.

**Personal Protective Equipment Industrial Environment**

Eye/Face Protection  Splash-proof chemical goggles or face shield.
Skin and body protection Impervious rubber, alkali-proof protective gloves Impervious rubber boots & apron.
Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures Practice good personal hygiene. Wash after handling. Shower at end of work period Practice good personal hygiene. Wash after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>clear blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>8.5</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>212 °F</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>GT 1.00</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>upper flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lower flammability limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosion Limits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lower</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>17</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>0.62</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.00</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>completely soluble</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
<td></td>
<td>No information available</td>
</tr>
</tbody>
</table>
Partition coefficient: n-octanol/water | No information available
---|---
Autoignition temperature | No information available
Decomposition temperature | No information available
Viscosity, kinematic | No information available
Viscosity, dynamic | No information available
Explosive properties | No information available
Oxidizing Properties | No information available

9.2 Other information
Stability | Stable
Softening point | No information available
Molecular Weight | No information available
VOC Content(%) | No information available
Density VALUE | 8.34
Bulk Density VALUE | No information available

10. STABILITY AND REACTIVITY
Stability | Stable
Incompatible products | Strong oxidizing agents
Conditions to Avoid | None known based on information supplied
Hazardous Decomposition Products | If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides.
Hazardous Polymerization | Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION
Acute toxicity
Product Information | Product does not present an acute toxicity hazard based on known or supplied information.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>4396 mg/kg (Rat)</td>
<td>12800 mg/kg (Rat) 12870 mg/kg (Rabbit)</td>
<td>72.6 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

Chronic toxicity
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>Group 1</td>
<td>Group 3</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Target Organ Effects | None known.

12. ECOLOGICAL INFORMATION
Ecotoxicity
The environmental impact of this product has not been fully investigated

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
</table>
### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging**

Do not re-use empty containers.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>0.05</td>
</tr>
</tbody>
</table>
40013-5 - Swisher Low Temp Rinse

Revision Date 17-Oct-2011

KECL: Complies
PICCS: Complies
AICS: Complies

SARA 313
SARA TITLE III (EPCRA) NOTIFICATION: ISOPROPYL ALCOHOL [Reportable under section 313 and section 6607 of the Pollution Prevention Act]
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: This does not contain chemicals subject to reporting under CERCLA For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

SARA 311/312 Hazard Categories
- Acute Health Hazard: no
- Chronic Health Hazard: no
- Fire Hazard: no
- Sudden Release of Pressure Hazard: no
- Reactive Hazard: no

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td></td>
<td>Mexico: TWA 400 ppm Mexico: TWA 980 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m³</td>
</tr>
</tbody>
</table>

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NPRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>X</td>
</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

**Prepared By**
Swisher Hygiene Inc.
4725 Piedmont Row Drive
Suite 400
Charlotte, NC 28210

**Issuing date**
17-Oct-2011

**Revision Date**
17-Oct-2011

**Revision Note**
No information available

**Disclaimer**
The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet