SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ACCUGLASS® P-112A Spin-On Glass

MSDS Number : 000000011639

Product Use Description : Electronic Materials

Manufacturer or supplier's details : Honeywell International Inc.
101 Columbia Road
Morristown, NJ 07962-1057

For more information call : 1-480-293-9800
1-509-252-2200
(1-509-252-2200) (Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414
Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887
(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid, clear
Color : colourless
Odor : alcohol-like ketone-like

Classification of the substance or mixture
Classification of the substance or mixture : Flammable liquids, Category 2
Eye irritation, Category 2A
Specific target organ toxicity - single exposure, Category 3,
Respiratory system, Central nervous system
GHS Label elements, including precautionary statements

Symbol(s): 

Signal word: Danger

Hazard statements:
Highly flammable liquid and vapour. 
Causes serious eye irritation. 
May cause respiratory irritation. 
May cause drowsiness and dizziness.

Precautionary statements: Prevention:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 
Keep container tightly closed. 
Ground/bond container and receiving equipment. 
Use explosion-proof electrical/ ventilating/ lighting/ equipment. 
Use only non-sparking tools. 
Take precautionary measures against static discharge. 
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. 
Wash skin thoroughly after handling. 
Use only outdoors or in a well-ventilated area. 
Wear eye/face protection.

Response:
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. 
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 
Call a POISON CENTER or doctor/ physician if you feel unwell. 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 container tightly closed. 
Store in a well-ventilated place. Keep cool. 
Store locked up.
Disposal:
Dispose of contents/container to an approved waste disposal plant.

Carcinogenicity

IARC: Ethanol 64-17-5

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>30.00 - 36.00 %</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>30.00 - 34.00 %</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>22.00 - 28.00 %</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&lt;10.00 %</td>
</tr>
<tr>
<td>Proprietary inorganic polymer</td>
<td>-</td>
<td>3.00 - 5.00 %</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.

Skin contact: Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician.
Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion : Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Call a physician.

Notes to physician: Treatment : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
                                   Alcohol-resistant foam
                                   Dry chemical
                                   Carbon dioxide (CO2)

Unsuitable extinguishing media : Water may be ineffective.
                                  Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting : Flammable.
                                     Vapours may form explosive mixtures with air.
                                     Vapours are heavier than air and may spread along floors.
                                     Vapors may travel to areas away from work site before igniting/flashing back to vapor source.
                                     Suppress (knock down) gases/vapours/mists with a water spray jet.
                                     Cool closed containers exposed to fire with water spray.
                                     Do not allow run-off from fire fighting to enter drains or water courses.
                                     In case of fire hazardous decomposition products may be produced such as:
                                     Carbon monoxide
                                     Carbon dioxide (CO2)
                                     Silicon oxide

Special protective equipment for firefighters : In the event of fire and/or explosion do not breathe fumes.
                                               Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**: Isolate the affected area. Confine entry into the affected area to those persons properly protected (see Section 8 of MSDS). Keep people away from and upwind of spill/leak. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Remove all sources of ignition. Vapors may travel to areas away from work site before igniting/flashign back to vapor source. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

**Environmental precautions**: Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Methods for cleaning up**: Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

**Handling**

Handling: Handle with care. Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Containers which are opened must be carefully resealed and
kept upright to prevent leakage.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Take precautionary measures against static discharges.
Ensure all equipment is electrically grounded before beginning transfer operations.
No sparking tools should be used.
Use explosion-proof equipment.
Do not swallow.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion:
The product is easily combustible.
Avoid flammable gas mixtures.
Use only in explosion-proof areas.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Vapours are heavier than air and may spread along floors.
Keep product and empty container away from heat and sources of ignition.

Storage
Requirements for storage areas and containers:
Keep container tightly closed in a dry and well-ventilated place.
Keep away from direct sunlight.
Keep away from heat and sources of ignition.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep refrigerated.
Store away from incompatible substances.

Advice on common storage:
Do not store together with: Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Protective measures:
Ensure that eyewash stations and safety showers are close to the workstation location.
Do not swallow.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.
Engineering measures: Use with local exhaust ventilation. Prevent vapour buildup by providing adequate ventilation during and after use. Electrical equipment should meet requirements for Class I Group D (National Electrical Code NFPA 70) Use product only in closed system. Use explosion-proof equipment.

Eye protection: Do not wear contact lenses. For handling in closed ventilation system: Safety glasses with side-shields For leak, spill or other emergency: Goggles or face shield, giving complete protection to eyes

Skin and body protection: Wear as appropriate: Solvent-resistant apron and boots Flame retardant antistatic protective clothing. If splashes are likely to occur, wear: Protective suit

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. For rescue and maintenance work in storage tanks use self-contained breathing apparatus. Use NIOSH approved respiratory protection.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice for diagnostics. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Exposure Guidelines

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
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</thead>
</table>

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<table>
<thead>
<tr>
<th>Isopropanol</th>
<th>67-63-0</th>
<th>TWA : time weighted average</th>
<th>(200 ppm)</th>
<th>2008</th>
<th>ACGIH: US. ACGIH Threshold Limit Values</th>
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<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>STEL : Short term exposure limit</td>
<td>(400 ppm)</td>
<td>2008</td>
<td>ACGIH: US. ACGIH Threshold Limit Values</td>
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<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>REL : Recommended exposure limit</td>
<td>980 mg/m3 (400 ppm)</td>
<td>2005</td>
<td>NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards</td>
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<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>STEL : Short term exposure limit</td>
<td>1,225 mg/m3 (500 ppm)</td>
<td>2005</td>
<td>NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards</td>
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<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>PEL : Permissible exposure limit</td>
<td>980 mg/m3 (400 ppm)</td>
<td>02 2006</td>
<td>OSHA_TRANS: US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>TWA : time weighted average</td>
<td>980 mg/m3 (400 ppm)</td>
<td>1989</td>
<td>Z1A: US. OSHA Table Z-1-A (29 CFR 1910.1000)</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>STEL : Short term exposure limit</td>
<td>1,225 mg/m3 (500 ppm)</td>
<td>1989</td>
<td>Z1A: US. OSHA Table Z-1-A (29 CFR 1910.1000)</td>
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<tr>
<td>Substance</td>
<td>CAS Number</td>
<td>Exposure Limit Type</td>
<td>Limit</td>
<td>Date</td>
<td>Source</td>
</tr>
<tr>
<td>-----------</td>
<td>------------</td>
<td>---------------------</td>
<td>-------</td>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>TWA: time weighted average</td>
<td>(500 ppm)</td>
<td>2008</td>
<td>ACGIH: US. ACGIH Threshold Limit Values</td>
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<td>Acetone</td>
<td>67-64-1</td>
<td>STEL: short term exposure limit</td>
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<td>2008</td>
<td>ACGIH: US. ACGIH Threshold Limit Values</td>
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<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>TWA: time weighted average</td>
<td>(200 ppm)</td>
<td>12/2010</td>
<td>ACGIHLIS_P: US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values</td>
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<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>STEL: short term exposure limit</td>
<td>(500 ppm)</td>
<td>12/2010</td>
<td>ACGIHLIS_P: US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values</td>
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<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>REL: recommended exposure limit (REL)</td>
<td>590 mg/m³ (250 ppm)</td>
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<td>NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards</td>
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<td>Acetone</td>
<td>67-64-1</td>
<td>PEL: permissible exposure limit</td>
<td>2,400 mg/m³ (1,000 ppm)</td>
<td>02/2006</td>
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<td>Acetone</td>
<td>67-64-1</td>
<td>TWA: time weighted average</td>
<td>1,800 mg/m³ (750 ppm)</td>
<td>1989</td>
<td>Z1A: US. OSHA Table Z-1-A (29 CFR 1910.1000)</td>
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</table>
### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Physical state</td>
<td>liquid, clear</td>
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<tr>
<td>Color</td>
<td>colourless</td>
</tr>
<tr>
<td>Odor</td>
<td>alcohol-like ketone-like</td>
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<tr>
<td>pH</td>
<td>Note: no data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Note: no data available</td>
</tr>
</tbody>
</table>
### Boiling point/boiling range
- **Boiling point/boiling range**: > 56 °C

### Flash point
- **Flash point**: < 50 °F (10 °C)
  - **Method**: closed cup

### Evaporation rate
- **Evaporation rate**: < 1

### Flammability
- **Flammability**: Not applicable

### Lower explosion limit
- **Lower explosion limit**: Note: no data available

### Upper explosion limit
- **Upper explosion limit**: Note: no data available

### Vapor pressure
- **Vapor pressure**: Note: no data available

### Vapor density
- **Vapor density**: Note: no data available

### Density
- **Density**: 0.82 - 0.86 g/cm³

### Water solubility
- **Water solubility**: > 96 g/l

### Partition coefficient: n-octanol/water
- **Partition coefficient: n-octanol/water**: Note: no data available

### Ignition temperature
- **Ignition temperature**: Note: no data available

### Auto-ignition temperature
- **Auto-ignition temperature**: Note: not auto-flammable

### Decomposition temperature
- **Decomposition temperature**: Note: No decomposition if used as directed.

### Oxidizing properties
- **Oxidizing properties**: The substance or mixture is not classified as oxidizing.
SECTION 10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:
- Hazardous polymerisation does not occur.
- With oxidizing agents possible.

Conditions to avoid:
- Heat, flames and sparks.
- Keep away from direct sunlight.

Incompatible materials to avoid:
- Halogens
- Oxidizing agents
- Alkalines
- Strong acids
- Keep away from metals.

Hazardous decomposition products:
In case of fire hazardous decomposition products may be produced such as:
- Carbon monoxide
- Carbon dioxide (CO2)
- Silicon oxide
- Phosphorus compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: Note: no data available

Acute inhalation toxicity: Note: no data available

Acute dermal toxicity: Note: no data available
Skin irritation : Note: no data available

Eye irritation : Note: no data available

Sensitisation : Note: no data available

Repeated dose toxicity
Acetone : Species: Rat
NOEL: 19000 ppm
8-Week Inhalation Toxicity Study
5 days/week for 8 weeks
Slightly reduced weight gain compared to controls

Species: Rat
NOEL: 100 mg/kg
90-Day Oral Toxicity Study
increased liver and kidney weights

Species: Rat
Lowest observed effect level: 500 mg/kg
90-Day Oral Toxicity Study
increased liver and kidney weights

Further information :

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish
Isopropanol : LC50: > 5,000 mg/l
Exposure time: 24 h
Species: Carassius auratus (goldfish)

LC50: 8,970 mg/l
Exposure time: 48 h
Species: Leuciscus idus (Golden orfe)
LC50: 10,400 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)

Acetone: static test
LC50: 5,540 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

Acetone: static test
LC50: 8,300 mg/l
Exposure time: 96 h
Species: Lepomis macrochirus (Bluegill sunfish)

Ethanol: LC0: 8,140 mg/l
Exposure time: 48 h
Species: Leuciscus idus (Golden orfe)

Flow-through test
LC50: 12,900 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

LC50: 14,200 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates

Isopropanol: EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Acetone: LC50: 12,600 - 12,700 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Ethanol: EC50: 9,268 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

EC50: 10,800 mg/l
Exposure time: 24 h
Species: Daphnia magna (Water flea)
Toxicity to algae
Isopropanol: LC50: > 2,000 mg/l
  Exposure time: 72 h
  Species: Desmodesmus subspicatus (green algae)

Acetone: EC50: 3,020 mg/l
  Exposure time: 14 d
  Species: Chlorella pyrenoidosa (algae)

Ethanol: LC0: 5,000 mg/l
  Species: Scenedesmus quadricauda (Green algae)

Toxicity to bacteria
Isopropanol: EC50: 35,390 mg/l
  Exposure time: 5 min
  Species: Photobacterium phosphoreum

Acetone: EC50: 14,500 mg/l
  Exposure time: 15 min
  Species: Photobacterium phosphoreum

Ethanol: LC0: 6,500 mg/l
  Species: Pseudomonas putida
  EC50: 35,470 mg/l
  Exposure time: 5 min
  Species: Photobacterium phosphoreum
  EC50: 34,634 mg/l
  Exposure time: 30 min
  Species: Photobacterium phosphoreum

Biodegradability
Isopropanol: Biochemical Oxygen Demand (BOD) Biochemical oxygen demand within 5 days
  Value: 58 %

Acetone: anaerobic
  Result: Readily biodegradable
  Value: 78 %
  Method: OECD 301 D
Further information on ecology

Additional ecological information: We have no quantitative data concerning the ecological effects of this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods: Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN/ID No.</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Hazard Labels</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN 1993</td>
<td>Flammable liquids, n.o.s. (Isopropanol, Acetone, Ethanol)</td>
<td>3</td>
<td>II</td>
<td>3</td>
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</tbody>
</table>

IATA

<table>
<thead>
<tr>
<th>IATA</th>
<th>UN/ID No.</th>
<th>Description of the goods</th>
<th>Class</th>
<th>Packaging group</th>
<th>Hazard Labels</th>
<th>Packing instruction (cargo aircraft)</th>
<th>Packing instruction (passenger aircraft)</th>
<th>Packing instruction (passenger aircraft)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>UN 1993</td>
<td>Flammable liquids, n.o.s. (Isopropanol, Acetone, Ethanol)</td>
<td>3</td>
<td>II</td>
<td>3</td>
<td>364</td>
<td>353</td>
<td>Y341</td>
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IMDG

<table>
<thead>
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<th>IMDG</th>
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<th>Description of the goods</th>
<th>Class</th>
<th>Packaging group</th>
<th>Hazard Labels</th>
<th>EmS Number</th>
<th>Marine pollutant</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>UN 1993</td>
<td>Flammable liquids, n.o.s. (ISOPROPANOL, ACETONE, ETHANOL)</td>
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<td>II</td>
<td>3</td>
<td>F-E, S-E</td>
<td>no</td>
</tr>
</tbody>
</table>
SECTION 15. REGULATORY INFORMATION

Inventories

1907/2006 (EU) : On the inventory, or in compliance with the inventory

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : Not in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Japan. Industrial Safety & Health Law (ISHL) List : Not in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : Not in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : Not in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : Not in compliance with the inventory

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

SARA 313 Components : Manufacturing and processing
Isopropanol 67-63-0

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

CERCLA Reportable Quantity : 14075 lbs

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts RTK : Isopropanol 67-63-0
Acetone 67-64-1
Ethanol 64-17-5

New Jersey RTK : Isopropanol 67-63-0
Acetone 67-64-1
Ethanol 64-17-5

Pennsylvania RTK : Isopropanol 67-63-0
Acetone 67-64-1
Ethanol 64-17-5

WHMIS Classification : B2: Flammable liquid
D2B: Toxic Material Causing Other Toxic Effects

SECTION 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Health hazard</th>
<th>HMIS III</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2*</td>
<td>2</td>
</tr>
</tbody>
</table>

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Flammability : 3
Physical Hazard : 0
Instability : 0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further 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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
Previous Issue Date: 02/10/2011
Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group