

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product Name:** HYSO® Aerosol Surface Disinfectant (for Kimberly-Clark Professional\* Automatic Door Handle Disinfectant System)

**Product Number:** 35524

Date Prepared:	9/28/2012
Manufacturer:	Kimberly-Clark Corporation 1400 Holcomb Bridge Road Roswell, GA 30076-2199 United States of America
Telephone: MEDICAL EMERGENCY TRANSPORTATION EMERGENCY INFORMATION	1-877-561-6587 Chemtrec 1-800-424-9300 1-888-346-4652

**Product Use:** Sanitizer.

For additional information contact: [kcinfo@kcc.com](mailto:kcinfo@kcc.com).

**2. HAZARDS IDENTIFICATION**

Colorless to pale yellow solution. Pleasant odor.

**Emergency Overview:** Flammable liquid and vapor. Contents under pressure. Heated can may rupture. Avoid sparks, flame and excessive heat. May cause eye irritation. Excessive inhalation may cause respiratory irritation, coughing, shortness of breath, nausea, dizziness, loss of coordination, drowsiness, loss of consciousness and other symptoms of central nervous system depression.

**EU Classification (1999/45/EC):** F+ - Extremely flammable Xi - Irritant

**US OSHA Classification (29CFR1910.1200):** Eye Irritant. Target Organ Effects  
Flammable aerosol.

**Canadian WHMIS Classification:** Class B-5 Class D-2-B

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<i>Chemical Name</i>	<i>CAS-No./ EINECS-No</i>	<i>%</i>	<i>EU Classification (67/548/EEC):</i>
Isopropanol (Isopropyl alcohol, propan-2-ol)	67-63-0 / 200-661-7	<55%	F, Xi R11, R36, R67
1,1-Difluoroethane	75-37-6/200-866-1	<30%	F+ R12
Isobutane	75-28-5/200-857-2	<15%	F+ R12

Alkyl dimethyl benzyl ammonium chloride	68391-01-5/269-919-4	<0.1%	C, N, Xn R20/22, R34, R50
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See Section 16 for further information on EU Classification.

#### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. Obtain medical attention if irritation persists.

**Skin contact:** Wash off with soap and water. Obtain medical attention if irritation persists.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention if irritation persists.

**Ingestion:** Call a physician or Poison Control Centre immediately. If victim is conscious, rinse mouth with a small amount of water. Never give anything by mouth to a person who is unconscious or drowsy. Drink 1 or 2 glasses of water.

#### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Dry chemical, carbon dioxide or alcohol-resistant foam.

**Special Fire Fighting Procedures:** Water may be used to keep exposed containers cool. Wear self-contained breathing apparatus and protective suit. Protect against bursting cans.

**Unusual Fire and Explosion Hazards:** Flammable liquid and vapor. Contents under pressure. Keep away from heat and open flames. Container may rupture or explode in the heat of a fire. Prolonged exposure to temperatures above 120°F may cause cans to burst.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide.

#### 6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate the area.

Contain and collect with inert absorbent material and place in a suitable container for disposal. Comply with all federal, state and local regulations.

#### 7. HANDLING AND STORAGE

Avoid contact with eyes. Keep away from heat, sparks, flames, hot surfaces and all other sources of ignition. Use only with adequate ventilation. Contents under pressure. Heated can may rupture. Do not puncture or incinerate container. Do not store in direct sunlight. Store as a flammable aerosol. Do not store at temperatures above 120°F.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	Exposure limit(s)
Isopropanol (Isopropyl alcohol, propan-2-ol)	400 ppm US OSHA PEL-TWA 200 ppm ACGIH TLV-TWA, 400 ppm ACGIH TLV-STEL 200 ppm DFG MAK 400 ppm UK 8 hr TWA, 500 ppm UK 15 min
1,1-Difluoroethane	1000 ppm TWA AIHA WEEL
Isobutane	1000 ppm TWA ACGIH TLV
Alkyl dimethyl benzyl ammonium chloride	None established

**Ventilation:** No special ventilation normally required. Ensure adequate ventilation to maintain airborne concentrations below applicable occupational exposure limits.

**Respiratory Protection:** No personal respiratory protective equipment normally required. If the exposure limit is exceeded or for symptoms of overexposure, wear an appropriate NIOSH (or local authority) certified respirator.

**Protective Gloves:** None normally required.

**Eye Protection:** None required for normal use.

For bulk processing, regular hand washing along with general body-covering clothing, safety goggles and gloves are recommended as good industrial hygiene practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odor	Colorless to pale yellow solution. Pleasant odor.
Boiling point/range	Not available
Melting point/range	Not available
Specific Gravity (water=1)	0.92
Vapor pressure	Not available
Vapor density (air=1)	<1
Solubility	Complete
pH	Complete
Partition coefficient (n-octanol/water):	Not available
Evaporation Rate (Butyl acetate=1)	>1
Percent Volatile by Volume (%)	>99%
Volatile Organic Carbon Compounds (VOC) (g/L)	Not available

Flashpoint:	125°F (51.7°C)closed cup
Flammable Limits in Air % by Volume:	LEL (Lower):2.0% UEL (Upper): 12.7%

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** Keep away from open flames, hot surfaces and sources of ignition.

**Materials to avoid:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Symptoms/Effects of Overexposure:

**Inhalation:** Inhalation may cause respiratory irritation, coughing, shortness of breath, nausea, dizziness, loss of coordination, drowsiness, loss of consciousness and other symptoms of central nervous system depression.

**Skin contact:** May cause drying of the skin. No significant irritation is expected.

**Eye contact:** Contact with eyes may cause irritation.

**Ingestion:** May cause mucous membrane and gastrointestinal irritation and other adverse effects. May cause nausea, vomiting, diarrhea, dizziness, drowsiness and other symptoms of central nervous system depression.

**Chronic toxicity:** None currently known.

**Medical Conditions Aggravated by Exposure:** None currently known. May possibly aggravate dermatitis, psoriasis and other skin conditions.

**Carcinogenicity Data:** None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA or the EU CLP Annex VI.

**Reproductive Toxicity:** No adverse effects on reproduction are known.

**Acute Toxicity Values:** Isopropanol (Isopropyl alcohol): LD50 Oral rat 5045 mg/kg; LD50 Skin rabbit 12,800 mg/kg; LC50 Inhalation rat 16,000 ppm/8 hour

## 12. ECOLOGICAL INFORMATION

No data is currently available.

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**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all state, local and federal regulations. Do not puncture or incinerate container.

**14. TRANSPORT INFORMATION**

**US DOT Shipping Description:** UN1950, Aerosol, flammable, 2.1

Consult 49CFR for authorized limited quantity exceptions, Ref: 173.156 and 173.306(i).

**IATA Shipping Description (Air):** UN1950, Aerosol, flammable, 2.1

**IMDG Shipping Description (Vessel):** UN1950, Aerosol, 2.1, LTD QTY

Consult IMDG Code Chapter 3.4 for more information on limited quantities.

**15. REGULATORY INFORMATION****US Regulations**

**EPA Toxic Substances Control Act (TSCA):** All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

**SARA 302 Listed Chemicals:** None.

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

**SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372):** None.


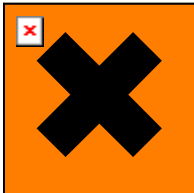
**California Proposition 65:** This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

**International Regulations**

**Canadian CEPA:** All of the components are either listed on or exempted from the Domestic Substances List (DSL).

**Canadian WHMIS Classification:** Class B-5 Class D-2-B

**EU Labeling:**

	F - Highly flammable		Xi - Irritant
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R12 - Extremely flammable.

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R36 - Irritating to eyes.

R67 - Vapours may cause drowsiness and dizziness.

S 2 - Keep out of reach of children.

S16 - Keep away from sources of ignition - No smoking.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S51 - Use only in well ventilated areas.

Do not spray on naked flame or any incandescent material. Do not pierce or burn, even after use. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50C.

## 16. OTHER INFORMATION

**HMIS Rating:** Health 1 Fire 4 Reactivity 0

0 = Minimal Hazard, 1 = Slight Hazard, 2 = Moderate Hazard, 3 = Serious Hazard, 4 = Severe Hazard

**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

C - Corrosive

F - Highly flammable

F+ - Extremely flammable

Xn - Harmful

Xi - Irritant

R12 - Extremely flammable.

R11 - Highly flammable.

R20/22 - Harmful by inhalation and if swallowed.

R34 - Causes burns.

R36 - Irritating to eyes.

R50 - Very toxic to aquatic organisms.

R67 - Vapours may cause drowsiness and dizziness.

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