

# Safety Data Sheets

APO



RSC, Benson

11/26/2019



**Safety Data Sheet Index**  
**Binder: RSC, Benson - APO**

<b>Product Name</b>	<b>CAS Number</b>	<b>Manufacturer</b>	<b>Version Date</b>	<b>Page</b>
99703 Fellowes Screen Cleaning Wipes Tub - 99703 Fellowes Screen Cleaning Wipes Tub		Fellowes, Inc.	02/10/2012	3
CLOROX CLEAN LINEN BLEACH - CLOROX CLEAN LINEN BLEACH		The Clorox Company	06/01/2012	6
CLOROX DISINFECTANT WIPES - CLOROX DISINFECTANT WIPES		The Clorox Company	07/01/2006	7
Dust-Off Compressed Gas Duster - Dust-Off Compressed Gas Duster		Falcon Safety Products, Inc	05/15/2018	8
Febreze Air Effects Aerosol Air Refresher - Aerosol Air Refresher		The Procter & Gamble Company, P and G Household Care	03/01/2014	14
Fellowes Powershred Shredder Lubricant 35250 - 35250 Fellowcs Powershred Shredder Lubricant	120962-03-0	Fellowes, Inc.	02/10/2012	20
Germ-X Hand Sanitizer - Germ-X Hand Sanitizer		Vi-Jon Incorporated	04/23/2008	23
PURELL Hand Sanitizer - PURELL Hand Sanitizer		GOJO Industries, Inc.	03/19/2015	29
PURELL Instant Hand Sanitizer Foam - PURELL Instant Hand Sanitizer Foam		GOJO Industries, Inc.	12/16/2013	44
Waxie Hospital Spray Surface Disinfectant - Waxie Hospital Spray Surface Disinfectant		Waxie Enterprises, Inc.	10/05/2000	46



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**SECTION 1: COMPANY AND PRODUCT IDENTIFICATION**

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Fellowes, Inc.  
1789 Norwood Avenue  
Itasca, IL 60143-1095  
USA  
Telephone: 630.893.1600  
Fax: 630.893.1648  
Toll Free: 800.945.4545

**Product Name:** 99703 Fellowes Screen Cleaning Wipes Tub  
**Description:** Cleaning Wipes

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**SECTION 2: HAZARD IDENTIFICATION**

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**Inhalation:** Not expected to be an inhalation hazard.  
**Eyes:** May cause slight irritation.  
**Skin:** Not expected to irritate skin.  
**Ingestion:** None expected when used as directed.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Chemical Name:</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Maximum Weight :</u>
Propylene Glycol Ethers	34590-94-8	252-104-2	<2%

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**SECTION 4: FIRST AID MEASURES**

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**Inhalation:** Not an inhalation hazard.  
**Eyes:** Flush eyes for at least fifteen (15) minutes.  
**Skin:** Wash with soap and water.  
**Ingestion:** Wash out with water.

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**SECTION 5: FIREFIGHTING MEASURES**

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**Flash Point:** Not flammable  
**Flammability Limits in Air by volume:** **Lower:** Not explosive **Upper:** Not explosive  
**Extinguishing Media:** As appropriate for surrounding area.  
**Special Firefighting Measures:** None  
**Unusual Hazards:** None

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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Wash spill with water.

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**SECTION 7: HANDLING AND STORAGE**

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**Handling:** No special handling requirements.

**Storage:** No special storage requirements.

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

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**Eyes and Face:** None necessary when product is used as intended.

**Clothing:** No special protective clothing when used as intended.

**Respiratory:** None necessary when product is used as intended.

**Ventilation:** Normal ventilation is adequate.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**Boiling Point:** Approximately 212 F (100C)

**Evaporation Rate:** Not determined

**Specific Gravity:** ~1

**Solubility in Water:** Highly soluble

**Appearance/Odor:** Colorless liquid; slight odor

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**SECTION 10: STABILITY AND REACTIVITY**

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**Stable:** Stable

**Conditions to Avoid:** None known

**Chemical Incompatibility:** None known

**Hazardous Decomposition:** None known

**Polymerization:** Will not occur

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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Not listed on NTP, OSHA, or IARC.



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**SECTION 12: ECOLOGICAL INFORMATION**

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No bioaccumulation potential.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**Disposal Methods:** Dispose in accordance with Local, State, and Federal Regulations.

**Additional Information:** None

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**SECTION 14: TRANSPORT INFORMATION**

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**DOT:** Not regulated as a hazardous material.

**IATA:** Not regulated as a hazardous material.

**IMO:** Not regulated as a hazardous material.

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**SECTION 15: REGULATORY INFORMATION**

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**United States:** The components used in this product are listed on the Toxic Substances Control Act.

**Canada:** All components are listed on the Canadian DSL.

**EU:** None

**Additional:** None

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**SECTION 16: OTHER INFORMATION**

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According to 29 CFR 1910.1200(b)(6)(ix) of the Code of Federal Regulations, amended July 1, 2007, the Fellowes product described in this Material Safety Data Sheet is exempt from the Hazard Communication Standard. The information contained in this MSDS is not meant to imply that this Fellowes product is covered by the OSHA Hazard Communication Standard nor meant to comply with the OSHA Hazard Communication Standard.

HMIS RATING	
Health	N/A
Flammability	N/A
Physical Hazard	N/A
Personal Protection	N/A

February 10, 2012



**The Clorox Company**

1212 Broadway  
Oakland, CA 94612  
Tel. (510) 271-7000

**Material Safety  
Data Sheet**

<b>I Product:</b> CLOROX® CLEAN LINEN® BLEACH										
<b>Description:</b> CLEAR, PALE YELLOW, THIN LIQUID WITH A FRUITY, CITRUS, FLORAL, BLEACH ODOR										
	<b>Distributor</b>									
	The Clorox Sales Company 1221 Broadway Oakland, CA 94612									
	<b>Emergency Telephone Nos.</b>									
	For Medical Emergencies, call 1-800-446-1014.  For Transportation Emergencies, call 1-800-424-9300 (Chemtrec).									
<b>II Health Hazard Data</b>	<b>III Hazardous Ingredients</b>									
<p>Eye irritant. May cause skin irritation. May be harmful if swallowed.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p><b>FIRST AID:</b></p> <p><b>EYE CONTACT:</b> Immediately rinse with water for 15 minutes. Call a doctor.</p> <p><b>SKIN CONTACT:</b> Rinse with water. If irritation persists, call a doctor.</p> <p><b>INGESTION:</b> Drink a glassful of water. Call a doctor or poison control center. Do not induce vomiting unless told to do so by a poison control center or doctor.</p> <p><b>INHALATION:</b> Remove to fresh air. If breathing problems develop, call a doctor.</p>	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite CAS # 7681-52-9</td> <td>1 - 5%</td> <td>Not established.</td> </tr> <tr> <td>Sodium hydroxide CAS #1310-73-2</td> <td>0.1 - 1%</td> <td>2 mg/m<sup>3</sup> - TLV-C<sup>a</sup> 2 mg/m<sup>3</sup> - PEL<sup>b</sup></td> </tr> </tbody> </table> <p><sup>a</sup>TLV-C = ACGIH Threshold Limit Value - Ceiling. <sup>b</sup>TLV-TWA = OSHA Permissible Exposure Limit - Time Weighted Average.</p> <p>None of the materials in this product are on the IARC, NTP, or OSHA carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS # 7681-52-9	1 - 5%	Not established.	Sodium hydroxide CAS #1310-73-2	0.1 - 1%	2 mg/m <sup>3</sup> - TLV-C <sup>a</sup> 2 mg/m <sup>3</sup> - PEL <sup>b</sup>
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Sodium hypochlorite CAS # 7681-52-9	1 - 5%	Not established.								
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<b>IV Special Protection and Precautions</b>	<b>V Transportation and Regulatory Data</b>									
<p><b>Hygienic Practices:</b> Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.</p> <p><b>Engineering Controls:</b> Use general ventilation to minimize exposure to product mist.</p> <p><b>Personal Protective Equipment:</b> Wear safety glasses. Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact. In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised</p>	<p><b>DOT:</b> Not restricted.</p> <p><b>IMDG:</b> Environmentally hazardous substance, liquid, n.o.s., UN3082, Class 9, PGIII.</p> <p><b>IATA:</b> Environmentally hazardous substance, liquid, n.o.s., UN3082, Class 9, PGIII.</p> <p><b>EPA - SARA Title III/CERCLA:</b> This product is regulated under Sections 311/312. This product contains no chemicals that are regulated under Section 313 and contains sodium hypochlorite and sodium hydroxide that are regulated under Section 304/CERCLA.</p> <p><b>TSCA 8(b):</b> All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.</p> <p><b>TSCA 12(b):</b> This product is not subject to TSCA 12(b) reporting requirements.</p>									
<b>VI Spill Procedures/Waste Disposal</b>	<b>VII Reactivity Data</b>									
<p><b>Spill Procedures:</b> Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. For spills of multiple products, responders should evaluate the MSDSs of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment is complete.</p> <p><b>Waste Disposal:</b> Dispose of in accordance with all applicable federal, state, and local regulations.</p>	<p>Stable under normal use and storage conditions.</p> <p>Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.</p>									
<b>VIII Fire and Explosion Data</b>	<b>IX Physical Data</b>									
Not flammable or explosive.	<p>pH.....~12.5</p> <p>Specific gravity.....~1.05</p> <p>Solubility in water.....Soluble</p>									



The Clorox Company  
 1221 Broadway  
 Oakland, CA 94612  
 Tel. (510) 271-7000

# Material Safety Data Sheet

<b>I Product:</b> CLOROX® DISINFECTING WIPES	
<b>Description:</b> FRAGRANCED, MOISTENED TOWELETTE	
<b>Other Designations</b>	<b>Distributor</b>
EPA Reg. No. 5813-58	Clorox Sales Company 1221 Broadway Oakland, CA 94612
<b>Emergency Telephone Nos.</b>	
For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrac (800) 424-9300	

<b>II Health Hazard Data</b>	<b>III Hazardous Ingredients</b>												
<p><b>Eye Contact:</b> Can cause moderate eye irritation.</p> <p><b>Ingestion:</b> Liquid should be practically non-toxic if ingested.</p> <p><b>Skin Contact:</b> Prolonged skin contact may produce minor irritation.</p> <p><b>FIRST AID:</b> EYES- Flush with plenty of water. Call a physician if irritation persists. IF SWALLOWED- Drink a glassful of water. Call a physician or poison control center. SKIN- Wash thoroughly with soap and water after handling. INHALATION- If breathing is affected, move to fresh air.</p> <p>Under normal consumer use conditions the likelihood of any adverse health effects are low.</p>	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>n-Alkyl (C14, 60%; C16, 30% C12, 5%; C18, 5%) dimethylbenzyl ammonium chloride</td> <td>0.145%</td> <td>Not established</td> </tr> <tr> <td>n-Alkyl (C12, 68%, C14, 32%) Dimethyl Ethylbenzyl ammonium chloride</td> <td>0.145%</td> <td>Not established</td> </tr> <tr> <td>Isopropanol CAS #67-63-0</td> <td>1- 5%</td> <td>400 ppm/500 ppm<sup>1</sup> 400 ppm<sup>2</sup></td> </tr> </tbody> </table> <p><sup>1</sup>1998 ACGIH, TLV-TWA/STEL  TLV-TWA- Threshold Limit Value-Time Weighted Average.  STEL- Short Term Exposure Limit  <sup>2</sup>PEL- OSHA Permissible Exposure Limit</p> <p>None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	n-Alkyl (C14, 60%; C16, 30% C12, 5%; C18, 5%) dimethylbenzyl ammonium chloride	0.145%	Not established	n-Alkyl (C12, 68%, C14, 32%) Dimethyl Ethylbenzyl ammonium chloride	0.145%	Not established	Isopropanol CAS #67-63-0	1- 5%	400 ppm/500 ppm <sup>1</sup> 400 ppm <sup>2</sup>
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Isopropanol CAS #67-63-0	1- 5%	400 ppm/500 ppm <sup>1</sup> 400 ppm <sup>2</sup>											

<b>IV Special Protection and Precautions</b>	<b>V Transportation and Regulatory Data</b>
<p>No special protection or precautions have been identified for using this product under directed consumer use conditions.</p> <p>The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale or prolonged exposure.</p> <p><b>Hygienic Practices-</b> Wear safety glasses. Use rubber or nitrile gloves if in contact liquid, especially for prolonged periods.</p> <p><b>Engineering Controls:</b> Use general ventilation to minimize exposure to vapor or mist.</p> <p><b>Work Practices:</b> Avoid eye and skin contact and inhalation of vapor or mist. Avoid contact with food. Not for personal cleansing.</p> <p><b>KEEP OUT OF THE REACH OF CHILDREN</b></p>	<p><b>U.S. DOT, IATA, IMG Hazard Class:</b> Not restricted.</p> <p><b>U.S. DOT Proper Shipping Name:</b> None</p> <p><b>EPA- SARA Title III/CERCLA:</b> Product may be regulated under Sections 311/312. This product contains no chemicals regulated under Section 304/CERCLA or Section 313.</p> <p><b>TSCA/DSL:</b> All chemicals in this product are listed on the TSCA Inventory. The DSL status for some components has not been determined.</p>

<b>VI Spill Procedures/Waste Disposal</b>	<b>VII Reactivity Data</b>
<p><b>Spill Procedures:</b> Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material.</p> <p><b>Waste Disposal:</b> Disposal must be made in accordance with applicable federal, state and local regulations.</p>	<p><b>Stability:</b> Mixing with sodium hypochlorite may release small amounts of formaldehyde gas.</p> <p><b>Storage/Disposal:</b> Do not use or store near heat or open flame.</p>

<b>VIII Fire and Explosion Data</b>	<b>IX Physical Data</b>
<p>Flashpoint: &gt;119°F Method: Closed cup.  Unusual Fire and Explosion Hazards: None</p>	<p>Flashpoint..... &gt;119°F  Specific Gravity..... 0.99 g/cc.  pH..... 5.0-6.0  Solubility in Water..... Liquid is completely dispersible</p>

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 DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH DATE PREPARED 7/06



# Dust-Off Compressed Gas Duster

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 10/15/2015

Revision date: 5/15/2018

Version: 2.0

### SECTION 1: Identification

#### 1.1. Product identifier

Substance name : Dust-Off Compressed Gas Duster  
Product code : 3.5 oz., 7 oz., 10 oz., Professional 12 oz., Jumbo 17 oz., Classic and Plus

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Dust Removal

#### 1.3. Details of the supplier of the safety data sheet

Falcon Safety Products, Inc.  
25 ImClone Drive  
Branchburg, NJ 08876 - USA  
T (908) 707-4900

#### 1.4. Emergency telephone number

Emergency number : (800) 498-7192

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

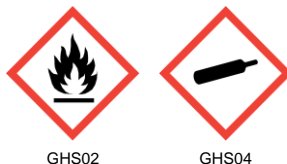
##### GHS-US and GHS-CA classification

Flam. Aerosol 2  
Press. Gas (Liquified Gas)

#### 2.2. Label elements

##### GHS-US and GHS-CA labelling

Hazard pictograms (GHS-US/GHS-CA) :



Signal word (GHS-US/GHS-CA) : Warning  
Hazard statements (GHS-US/GHS-CA) : Flammable aerosol. Contains gas under pressure; may explode if heated.  
Precautionary statements (GHS-US/GHS-CA) : Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.

#### 2.3. Other hazards

Do not store in enclosed vehicle.

#### 2.4. Unknown acute toxicity (GHS US/GHS CA)

Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Name	Product identifier	%
1,1-Difluoroethane	(CAS No) 75-37-6	100

#### 3.2. Mixture

Not applicable.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.  
First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists. May cause frostbite.



# Dust Off Compressed Gas Duster

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
- Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
- Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.
- Symptoms/injuries after ingestion : Not a normal route of exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray, water fog, dry chemical, alcohol resistant foam, carbon dioxide.
- Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon, hydrofluoric acid, carbonyl fluoride.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

### 5.3. Advice for firefighters

- Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.
- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

### 6.2. Methods and material for containment and cleaning up

- For containment : Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
- Methods for cleaning up : Leave the product to evaporate. Provide ventilation.

### 6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking.
- Precautions for safe handling : Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools.
- Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep out of the reach of children. Keep container dry and in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep in fireproof place. Store in original container. Do not store in enclosed vehicle.

### 7.3. Specific end use(s)

Not available.

# Dust Off Compressed Gas Duster

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

1,1-Difluoroethane (75-37-6)	
ACGIH	Not applicable.
OSHA	Not applicable.
NIOSH	Not applicable.
IDLH	Not applicable.

#### 8.2. Exposure controls

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear suitable gloves.
Eye protection	: Safety glasses with side shields.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Clear
Color	: Colourless
Odor	: Slight, ether-like
Odor threshold	: No data available
pH	: Neutral
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -13 °F (- 25 °C)
Flash point	: < 58 °F (<14.4 °C)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Flammable
Explosion limits	: 3.9-16.9
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 5960 kPa at 77 °F (25 °C)
Relative density	: 0.91
Relative vapor density at 20 °C	: 2.4 at 77 °F (25 °C)
Specific gravity / density	: 0.9
Solubility	: Slightly
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. Other information

No additional information available.

# Dust Off Compressed Gas Duster

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under normal storage conditions. Flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

#### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition. Do not expose to temperatures exceeding 50 °C/ 122 °F.

#### 10.5. Incompatible materials

Alkali and alkaline earth metals. Powdered metals. Powdered metallic salts.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, hydrofluoric acid, carbonyl fluoride.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Dust Off Compressed Gas Duster	
LD50 oral rat	1500 mg/kg
LD50 dermal rabbit	No data available
LC50 inhalation rat	64000 ppm

Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.
Symptoms/injuries after ingestion	: Not a normal route of exposure.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

#### 12.2. Persistence and degradability

Dust Off Compressed Gas Duster	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

Dust Off Compressed Gas Duster	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

# Dust Off Compressed Gas Duster

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. Container under pressure. Do not drill or burn even after use.
- Additional information : Flammable vapors may accumulate in the container.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

- In accordance with DOT
- UN-No. (DOT) : UN1030
- Proper Shipping Name (DOT) : 1,1-Difluoroethane
- Transport hazard class(es) (DOT) : 2.1
- Hazard labels (DOT) :



- Packaging Exceptions : Falcon Safety Products has been granted a DOT special permit. A copy of DOT Special Permit SP-11516 can be obtained by calling Falcon Safety Products, Inc. at 908-707-4900.

#### Transportation of Dangerous Goods (TDG)

- In accordance with TDG
- UN-No.(TDG) : UN1030
- Proper Shipping Name (TDG) : 1,1-Difluoroethane
- Class (TDG) : 2.1
- Hazard labels (TDG) :



- Packaging Exceptions : TDG Canada: Falcon Safety Products has been granted Equivalency Certificate SU 9211 (ren. 1) by the TCSS, TDGD to offer for transport by road, rail and marine.

#### Transport by sea

- UN-No. (IMDG) : UN1030
- Proper Shipping Name (IMDG) : 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a)
- Class (IMDG) : 2.1

#### Air transport

- UN-No. (IATA) : UN1030
- Proper Shipping Name (IATA) : 1,1-Difluoroethane
- Class (IATA) : 2.1

#### Additional information

- Other information : No supplementary information available.
- Special transport precautions : Do not handle until all safety precautions have been read and understood.

### SECTION 15: Regulatory information

#### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 1,1-Difluoroethane (75-37-6)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2. US State regulations

#### Dust Off Compressed Gas Duster

State or local regulations : This product does not contain a chemical known to the State of California to cause cancer,

# Dust Off Compressed Gas Duster

## Safety Data Sheet

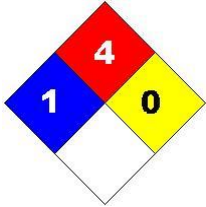
according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Dust Off Compressed Gas Duster	
	birth defects or other reproductive harm.

### SECTION 16: Other information

Date of issue : 10/15/2015  
Revision date : 5/15/2018  
Other information : None.

#### Mexico Classification:



**Blue = Health      Red = Flammability      Yellow = Reactivity      White = Special**

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

*Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.*



The Procter & Gamble Company  
P&G Household Care  
Fabric & Home Care Innovation Center  
5299 Spring Grove Avenue  
Cincinnati, OH 45217-1087

# MATERIAL SAFETY DATA SHEET

Issue Date: Mar 2014

## SECTION I - PRODUCT IDENTIFICATION

**Identity:** AEROSOL AIR REFRESHER **Finished Product**  
**Brands:** FEBREZE AIR EFFECTS (all scents, including seasonal scents)  
**P&G Telephone Number:** 1-800-308-EASY (1-800-308-3279) or call Local Poison Control Center or your physician.  
**Emergency (24 hour) Telephone Number:** CHEMTREC 1-800-424-9300 – in the U.S. and Canada 1-703-527-3887 - for calls originating elsewhere

## SECTION II - HAZARDS IDENTIFICATION

**Potential Health Hazards (Acute and Chronic):** (See Section 11 for more information)  
Ingestion: None  
Eye Contact: Mild eye irritant  
Skin: None  
Inhalation: None  
**Signs and Symptoms of Exposure:**  
Ingestion: Possible mild gastrointestinal irritation with nausea, vomiting, and/or diarrhea.  
Eye Contact: Do not spray toward face. If eye contact occurs, rinse well with water.  
Skin Contact: Prolonged skin contact or instillation into the eye may result in transient, superficial effects similar to those produced by mild toilet soap.  
Inhalation: Intentional misuse by deliberately concentrating and inhaling pressurized product may be harmful or fatal. Inhalation of high concentrations of ethanol vapor may cause irritation of the eyes and respiratory tract, drowsiness and fatigue.  
Medical Conditions Generally Known to be Aggravated by Exposure: None  
**Potential Environmental Effects:** (See Section 12 for more information)

## SECTION III - COMPOSITION AND INGREDIENTS

**Ingredients/Chemical Name:** Water, alcohol, odor eliminator derived from corn, fragrance, non-flammable natural propellant, quality control ingredients. Contents under pressure with nitrogen.  
**Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:**

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Ethanol	Alcohol	64-17-5	3-7%	7.06 g/kg rat, oral

#### SECTION IV – FIRST AID INFORMATION

**First Aid Procedures:**

Ingestion: Dilute with fluids and treat symptomatically.

Eye Contact: Rinse well with water for at least 15 minutes.

Skin Contact: Rinse with water.

Inhalation: Remove to fresh air.

**Note to Physician:** (if applicable)

**Other:** Consumer product package has the following precautionary statement:

**US Product Package:**

FRONT PANEL: **CAUTION: CONTENTS UNDER PRESSURE.** Read back panel carefully.

BACK PANEL: **CAUTION:** Intentional misuse by deliberately concentrating and inhaling pressurized product may be harmful or fatal. **KEEP OUT OF REACH OF CHILDREN.** Do not spray towards face. If eye contact occurs, rinse well with water. If irritation persists, get medical attention. Do not expose to heat or open flame or store at room temperatures above 120F. Dispose properly. Do not puncture or incinerate container.

**Canadian Product Package:**

FRONT PANEL: **CAUTION: CONTENTS UNDER PRESSURE.**

BACK PANEL: **CAUTION: CONTAINER MAY EXPLODE IF HEATED.** Do not puncture. Do not burn. Store away from heat. Some hard surfaces may become damp when sprayed. Avoid slips or falls. **KEEP OUT OF REACH OF CHILDREN.** Do not spray towards face. If eye contact occurs, rinse well with water.

#### SECTION V - FIRE FIGHTING INFORMATION

**Flash Point (Method Used):** 125-140°F (cc)/ 51.66- 60°C Although this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does **not** sustain combustion.

Aerosol was tested per the appropriate tests in the UN Manual of Tests and Criteria to classify as Aerosols 2.2.

**Flammable Properties:** Mixture and propellant are not flammable.

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

**Explosive Limits:** UEL: N/A LEL: N/A

**Auto-ignition Temperature:** N/K

**Hazardous Combustion Products:** N/K

**Explosion Data (Sensitivity to Mechanical Impact):** N/A

**Explosion Data (Sensitivity to Static Discharge):** N/A

**Extinguishing Media:**

Suitable: CO<sub>2</sub>, water or dry chemical may be used.

Unsuitable: N/K

**Protection of Firefighters:**

Specific Hazards Arising from the Material: N/K

Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** None

**Environmental Precautions:** Disposal is to be performed in compliance with federal, state/provincial and local regulations. Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some US states because of their potential to explode when heated. Check with your State/provincial environmental agency for guidance. Do not landfill liquid. Incinerate all expelled liquid.

**Methods for Containment:** Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak. Any spills are to be prevented from entering waterways. Sorbents may be used.

**Methods for Cleanup:** For individual cans, expel liquid, collect, incinerate, puncture container and send as scrap metal for recycling.

**Other Information:** (if applicable): N/A

## SECTION VII – HANDLING AND STORAGE

### Precautions For Safe Handling

**For Household Setting:** Keep out of reach of children. Do not expose to heat or open flame or store at room temperatures above 120F. Dispose properly. Do not puncture or incinerate container.

**For Non – Household Setting:** Avoid puncturing or otherwise damaging aerosol containers and packaging when using forklifts or other material handling equipment.

**Conditions for Safe Storage:** Do not expose to heat or flame.

**For Household Setting:** Pressurized container. Store at room temperature. Do not expose to temperatures above 43°C / 110°F.

**For Non-Household Use:** Pressurized container. Store at room temperature. Do not expose to temperatures above 43°C / 110°F. Store in accordance with local requirements for NFPA Aerosol Level 1 products.

## SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines:

Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm  
OSHA Z-1 PEL 1000 ppm

**Engineering Controls:** N/A

### Personal Protective Equipment (PPE):

Eye/Face Protection: None required for normal consumer use.

*Industrial setting:* If a splash of solution is likely, chemical goggles may be needed.

Skin Protection: None required for normal consumer use.

*Industrial setting:* Minimize skin contact with protective gloves (rubber or neoprene).

Respiratory Protection: None required with normal consumer use.

*Industrial setting:* Use ventilation to minimize exposure to vapor or mist (ethanol).



## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (color, physical form, shape):** Clear liquid. **Flash Point (Method Used):** 125-140°F (cc)/ 51.66- 60°C. Although this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does **not** sustain combustion.

**Odor:** Perfume **Solubility in Water:** Soluble

**Odor Threshold:** N/A **Decomposition Temperature:** N/A

**Physical State:** liquid **Evaporation Rate (nBuOAc=1):** N/K

**Vapor Pressure (mm Hg):** N/A **Specific Gravity/Density (H<sub>2</sub>O=1):** ~ 1.0

**Vapor Density (Air=1):** N/A **Melting/Freezing Point:** N/A

**Boiling Point:** 212°F / ~100°C **Reserve Alkalinity:** N/A

**Partition Coefficient (n-octanol/water):** N/A **pH (neat):** 4.0-5.0

**pH (neat):** 7.0 (Pet Odor Eliminator, Pure Refreshment and Clean Citrus)

**Volatile Organic Compound (VOC):** Product complies with State and Federal regulations for VOC content.

## SECTION X - STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Conditions to Avoid:** Avoid extreme heat.

**Incompatible Materials:** N/K

**Hazardous Decomposition Products:** N/K

**Possibility of Hazardous Reactions:** N/K

## SECTION XI – TOXICOLOGICAL INFORMATION

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.  
LD50 (rats oral) – estimated >5000 mg/kg

**Chronic Effects:** No chronic health effects reported.

**Target Organs:** No target organs reported.

**Carcinogenicity:** This finished consumer product is not carcinogenic.  
NTP: No  
IARC: No

## SECTION XII - ECOLOGICAL INFORMATION

This product is intended for dispersive use. The ingredients do not pose a significant hazard to aquatic organisms and will not cause any long-term adverse effects in the environment at environmentally relevant concentrations. The container is compatible with municipal solid waste systems and will not pose a hazard to the environment when properly handled.

### SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Disposal is to be performed in compliance with federal, state/provincial and local regulations. Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some States because of their potential to explode when heated. Check with your State/provincial environmental agency for guidance. Do not landfill liquid. Incinerate all expelled liquid.

*Non-Household Setting (federal):* For individual bottles, expel liquid, collect and incinerate. Puncture container and send as scrap metal for recycling.

*Non-Household Setting (California):* Hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

*Household Use:* Consumer may discard empty container in trash, or recycle where facilities exist.

### SECTION XIV - TRANSPORT INFORMATION

**Transportation Information** – Products covered by this MSDS, in their original form, are regulated for transportation.

For finished packaged product transported by ground (US DOT): **Consumer Commodity ORM-D.**

For finished packaged product transported by sea (IMDG): **UN1950, Aerosols, 2.2**

For finished packaged product transported by air (IATA): **ID8000 Consumer Commodity, 9**

### SECTION XV - REGULATORY INFORMATION

#### UNITED STATES - FEDERAL

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA chemicals: This product contains the following SARA 313/302/304/311/312 chemicals: NONE

#### STATES:

This product is not subject to warning labeling under California Proposition 65.

#### State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS#	Level	States					CERCLA RQ
			IL	MA	NJ	PA	RI	
Ethanol	64-17-5	3-7%	X	X	X	X	X	100 lbs

#### Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

**SECTION XVI - OTHER INFORMATION**

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

\*N/A. - Not Applicable

\*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

**DISCLAIMER:** This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.



**SECTION 1: COMPANY AND PRODUCT IDENTIFICATION**

---

Fellowes, Inc.  
1789 Norwood Avenue  
Itasca, IL 60143-1095  
USA  
Telephone: 630.893.1600  
Fax: 630.893.1648  
Toll Free: 800.945.4545

**Product Name:** 35250 Fellowes Powershred Shredder Lubricant  
**Description:** Lubricant

**SECTION 2: HAZARD IDENTIFICATION**

---

**Inhalation:** May cause slight irritation.  
**Eyes:** May cause slight irritation.  
**Skin:** May cause slight irritation.  
**Ingestion:** May cause gastrointestinal discomfort.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

---

<u>Chemical Name:</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Maximum Weight :</u>
Canola Oil	120962-03-0		>99%

**SECTION 4: FIRST AID MEASURES**

---

**Inhalation:** Move to fresh air.  
**Eyes:** Flush with water.  
**Skin:** Wash with soap and water.  
**Ingestion:** Do not induce vomiting. Seek medical attention.

**SECTION 5: FIREFIGHTING MEASURES**

---

**Flash Point:** >500F (260C) Closed Cup  
**Flammability Limits in Air by volume:** **Lower:** Not explosive **Upper:** Not explosive  
**Extinguishing Media:** Do not use water jet. Use dry chemical, halon, carbon dioxide, water spray, fog, or foam.  
**Special Firefighting Measures:** None  
**Unusual Hazards:** None



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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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Use absorbent material and dispose of appropriately. For large spills, keep product out of sewers and advise authorities if product has entered sewers. Surfaces may become slippery after spillage.

---

**SECTION 7: HANDLING AND STORAGE**

---

**Handling:** Keep away from heat and sources of ignition.  
**Storage:** Do not store near heat or flame. Store away from strong oxidizers.

---

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

---

**Eyes and Face:** None necessary when product is used as intended.  
**Clothing:** No special protective clothing when used as intended.  
**Respiratory:** None necessary when product is used as intended.  
**Ventilation:** Normal ventilation is adequate.

---

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

**Boiling Point:** >575F  
**Evaporation Rate:** Not available  
**Specific Gravity:** 0.92 g/ml (7.67 lb/gal) @ 25C  
**Solubility in Water:** Not soluble  
**Appearance/Odor:** Yellow to amber liquid; faint fatty odor.

---

**SECTION 10: STABILITY AND REACTIVITY**

---

**Stable:** Stable under normal conditions.  
**Conditions to Avoid:** Keep away from heat and open flame. Avoid strong oxidizing agents.  
**Chemical Incompatibility:** Strong oxidizers  
**Hazardous Decomposition:** Combustion produces carbon monoxide, carbon dioxide, along with thick smoke.  
**Polymerization:** Will not occur

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

---

Not listed on NTP, OSHA, or IARC.



**SECTION 12: ECOLOGICAL INFORMATION**

---

This product is biodegradable.

**SECTION 13: DISPOSAL CONSIDERATIONS**

---

**Disposal Methods:** Dispose in accordance with Federal, State, and Local Regulations.

**Additional Information:** "Empty" containers should be completely drained.

**SECTION 14: TRANSPORT INFORMATION**

---

**DOT:** Not regulated as a hazardous material.

**IATA:** Not regulated as a hazardous material.

**IMO:** Not regulated as a hazardous material.

**SECTION 15: REGULATORY INFORMATION**

---

**United States:** The components used in this product are listed on the Toxic Substances Control Act.

**Canada:** All components are listed on the Canadian DSL.

**EU:** Currently not classified according to EEC Directives.

**Additional:** None

**SECTION 16: OTHER INFORMATION**

---

According to 29 CFR 1910.1200(b)(6)(ix) of the Code of Federal Regulations, amended July 1, 2007, the Fellowes product described in this Material Safety Data Sheet is exempt from the Hazard Communication Standard. The information contained in this MSDS is not meant to imply that this Fellowes product is covered by the OSHA Hazard Communication Standard nor meant to comply with the OSHA Hazard Communication Standard.

HMIS RATING	
<b>Health</b>	0
<b>Flammability</b>	1
<b>Physical Hazard</b>	0
<b>Personal Protection</b>	N/A

February 10, 2012

# Material Safety Data Sheet



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## Section 1: PRODUCT AND COMPANY IDENTIFICATION

---

Vi-Jon Incorporated  
8515 Page Avenue  
Saint Louis, MO 63114

**Phone:** 314-427-1000  
**In Case of Spill Emergency Contact:**  
**Chemtrec:** 1-800-424-9300

**Product Name:** Germ-X Hand Sanitizer

**Product Code:** 028

**Product Use:** Hand Sanitizer

**Issue Date:** 04/23/2008

**Supersedes Date:** July 2007

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## Section 2: HAZARDS IDENTIFICATION

---

**EMERGENCY OVERVIEW:** Keep out of reach of children.

Appearance/Odor: Clear gel with alcohol/citrus odor.

**WARNING:**

Flammable (ethyl alcohol and isopropyl alcohol)

Target (ethyl alcohol and isopropyl alcohol) respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

**Potential Health Effects:** See Section 11 for more information.

**Symptoms of Exposure:**

Inhalation: May cause irritation of the respiratory tract.

Ingestion: May cause nausea, vomiting and diarrhea.

Eyes: May cause irritation to the eyes.

Skin: None expected.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Potential Environmental Effects:** See Section 12 for more information.

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**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

---

Component	CAS#	% by Wt.
Ethyl Alcohol	64-17-5	59%
Isopropyl Alcohol	67-64-0	3%

---

**Section 4: FIRST AID MEASURES**

---

**Emergency first aid procedures by route of exposure:**

- Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting. If the material is swallowed, get medical attention or advice.
- Skin:** If irritation is experienced, flush with water. If irritation persists, get medical attention.
- Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

---

**Section 5: FIRE FIGHTING MEASURES**

---

**Flash Point:** 71°F (21.6°C)

**Method Used:** ASTM D-93

**Lower Flammable Limit:** 3.3 (Volume % in air)

**Upper Flammable Limit:** 19.0 (Volume % in air)

**Auto Ignition:** (Ethyl Alcohol) 363°C

**Flammability Classification:** Flammable Liquid IB

**Extinguishing Media:** Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

**Products of Combustion:** Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

**Fire Fighting Equipment/Instructions:** Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

**NFPA Rating:** Health:2 Fire: 3 Reactivity:0

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

---

**Section 6: ACCIDENTAL RELEASE MEASURES**

---

**Personal Precautions:** For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Environmental Precautions:** Prevent discharge to open waters.

**Method for Containment:** Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

**Methods for Clean-Up:** Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.



---

## Section 7: HANDLING AND STORAGE

---

**Handling:** Keep away from heat, sparks and flame. Prevent contact with eyes. Avoid inhalation.

**Storage:** Keep the container tightly closed and in a cool, well ventilated place.

---

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Exposure Guidelines

Ethyl Alcohol (64-17-5)

ACGIH: 1,000 ppm TWA  
OSHA: 1,000 ppm TWA; 1,900 mg/m<sup>3</sup> TWA

Isopropyl Alcohol (67-63-0)

ACGIH: 200 ppm TWA  
OSHA: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA

**Engineering Controls:** Normal room ventilation is usually adequate under normal use.

### Personal Protective Equipment (PPE)

**Eye/Face Protection:** None needed under normal use.

**Skin Protection:** None needed under normal use.

**Respiratory Protection:** None needed under normal use.

**General Hygiene Considerations:** None needed under normal use.

---

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**Appearance/Color:** Clear Translucent

**Odor:** Alcohol/Citrus

**Physical State:** Gel

**pH:** Not Available.

**Vapor Density:** (Ethyl Alcohol) 1.6

**Boiling Point:** (Ethyl Alcohol) 78.5°C

**Vapor Pressure:** (Ethyl Alcohol) 57.3 hPa at 20°C

**Melting Point:** (Ethyl Alcohol) -114.1°C

**Freezing Point:** Not Available

**Flash Point** (see section 5)

**Flammability Properties** (see section 5)

**Solubility** (in water): Soluble

**Specific Gravity @ 25°C:** 0.88-0.92

**Evaporation Rate:** Not Available

**Octanol/Water partition coefficient (K<sub>ow</sub>):** (Ethyl Alcohol): - 0.32

**Auto-ignition temperature:** (Ethyl Alcohol) 363°C

**Decomposition temperature:** Not Available

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**Section 10: STABILITY AND REACTIVITY**

---

**Stability:** Stable under normal ambient temperatures 70°C (21°C)

**Condition to Avoid:** Avoid excessive heat or sources of ignition.

**Incompatible Materials:** This product reacts with strong acid, strong bases, and oxidizing agents.

**Hazardous Decomposition:** upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

**Hazardous Reactions:** Hazardous polymerization will not occur.

---

**Section 11: TOXICOLOGY INFORMATION**

---

**ACUTE EFFECTS:****A: General Product information**

Product contains ethyl alcohol and isopropyl alcohol.

**B: Component Analysis LD50**

Ethyl Alcohol (64-17-5)  
Oral LD50 Rat: 7060 mg/kg

Isopropyl Alcohol (67-63-0)  
Inhalation LC50 Rat: 72.6 mg/L/4H  
Oral LD50 Rat: 4396 mg/kg  
Dermal LD50 Rat: 12800 mg/kg  
Dermal LD50 Rabbit: 12870 mg/kg

**CHRONIC EFFECTS:****Component**

Ethyl Alcohol (64-17-5)

**Carcinogenicity:** ACGIH A4 – Not Classifiable as a Human Carcinogen

**Neurotoxicity:** This product contains ethyl alcohol, a central nervous system target.

**Mutagenicity:** No information available for product.

**Reproductive:** No information available for product.

**Developmental:** Ethyl alcohol is a developmental toxin when consumed during pregnancy.

**Target Organs:** When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

Isopropyl Alcohol (67-63-0)

**Carcinogenicity:** ACGIH A4 – Not Classifiable as a Human Carcinogen

**Neurotoxicity:** This product contains isopropyl alcohol, a central nervous system target.

**Mutagenicity:** No information available for product.

**Reproductive:** No information available for product.

**Developmental:** No information available for product.

**Target Organs:** skin, eyes, CNS, Kidney, Developmental and respiratory system.

---

**Section 12: ECOLOGICAL INFORMATION**

---

**Ecotoxicity:** Ethyl Alcohol (64-17-5)

96 hour LC50 Oncorhynchus mykiss: 12,900 mg/L (flow-through) (30days old)  
96 hour LC50 Pimephales promelas 14.2 mg/L  
5 min EC50 Photobacterium phosphoreum: 35,470 mg/L  
30 min EC50 Photobacterium phosphoreum: 34,634 mg/L  
48 hour EC50 Daphnia magna: 9,268 mg/L  
24 hour EC50 Daphnia magna: 10,800 mg/L

**Ecotoxicity:** Isopropyl Alcohol (67-63-0)

96 Hr EC50 Scenedesmus Subspicatus: >1000 mg/L  
72 Hr EC50 Scenedesmus subspicatus:>1000 mg/L  
96 Hr LC50 Pimephales promelas: 9640 mg/L [flow through]  
96 Hr LC50 Pimephales promelas: 94900 mg/L [flow through] (29 days old)  
96 Hr LC50 Pimephales promelas: 61200 mg/L [flow through] (31 days old)  
5 min EC50 Photobacterium phosphoreum: 35390 mg/L  
48 Hr EC50 Daphnia magna: 13299 mg/L

---

**Section 13: DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with federal, state, and local regulations.

---

**Section 14: TRANSPORTATION INFORMATION**

---

Shipping Name: Consumer Commodity ORM-D

Proper Shipping Name for Non-Consumer Commodity: Ethyl Alcohol Solutions, 3, UN1170, PGIII.

IMDG: UN1170, Ethanol Solutions (Ethyl Alcohol Solution), Class 3, PG II (21.6C cc) EmS # F-E S-D, Limited Quantity

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**Section 15: REGULATORY INFORMATION**

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Ethyl alcohol and isopropyl alcohol, components of this product, are on the TSCA inventory.

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This material contains ethyl alcohol a developmental toxicity when in alcoholic beverages.

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS#	CA	MA	MN	NJ	PA
Isopropyl Alcohol	67-63-0	YES	YES	YES	YES	YES
Ethyl alcohol	64-17-5	YES	YES	YES	YES	YES

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**Section 16: Other Information**

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Prepared by: Vi-Jon Inc.

**Disclaimer:**

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

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This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.

**PURELL® Hand Sanitizer**

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

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**SECTION 1. IDENTIFICATION**

Product name : PURELL® Hand Sanitizer

**Manufacturer or supplier's details**

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500  
Akron OH 44311

Telephone : 1 (330) 255-6000

Emergency telephone : 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 or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. 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.

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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 : H226 Flammable liquid and vapor.  
H319 Causes serious eye irritation.


**PURELL® Hand Sanitizer**

Version 1.2      Revision Date: 03/19/2015      MSDS Number: 46955-00003      Date of last issue: 02/10/2015  
 Date of first issue: 01/13/2015

Precautionary Statements : **Prevention:**  
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 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.  
**Storage:**  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

Vapors may form explosive mixture with air.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

**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.  
 Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.  
 Get medical attention if symptoms occur.

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.

**PURELL® Hand Sanitizer**

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

---

- Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.
- 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 personal protective equipment when the potential for exposure exists.
- Notes to physician : Treat symptomatically and supportively.
- 

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.  
Flash back possible over considerable distance.  
Vapors may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.
- 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.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for fire-fighters : 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 : Remove all sources of ignition.  
Use personal protective equipment.  
Follow safe handling advice and personal protective equipment recommendations.
- Environmental precautions : Discharge into the environment must be avoided.
-



## PURELL® Hand Sanitizer

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

---

Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
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/vapors/mists with a water spray jet.  
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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### SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.  
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling : Do not breathe vapors or spray mist.  
Do not swallow.  
Do not get in eyes.  
Avoid prolonged or repeated contact with skin.  
Handle in accordance with good industrial hygiene and safety practice.  
Non-sparking tools should be used.  
Keep container tightly closed.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.  
Keep tightly closed.  
Keep in a cool, well-ventilated place.  
Store in accordance with the particular national regulations.  
Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents



## PURELL® Hand Sanitizer

Version 1.2      Revision Date: 03/19/2015      MSDS Number: 46955-00003      Date of last issue: 02/10/2015  
Date of first issue: 01/13/2015

Organic peroxides  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures which in contact with water emit flammable gases  
Explosives  
Gases

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m <sup>3</sup>	NIOSH REL
		ST	500 ppm 1,225 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 980 mg/m <sup>3</sup>	OSHA Z-1

## Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

**Engineering measures** : Minimize workplace exposure concentrations.  
Use only in an area equipped with explosion proof exhaust ventilation.  
Use with local exhaust ventilation.

**Personal protective equipment**

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and

**PURELL® Hand Sanitizer**

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

---

use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

- Hand protection
- Material : Impervious gloves
- Material : Flame retardant gloves
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Eye protection : Wear the following personal protective equipment:  
Safety goggles
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Wear the following personal protective equipment:  
Flame retardant antistatic protective clothing.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Color : clear, Colorless to pale yellow
- Odor : citrus
- Odor Threshold : No data available
- pH : 6.0 - 9.2
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : No data available

**PURELL® Hand Sanitizer**

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

---

Flash point	:	25 °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	:	0.89 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	No data available
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity		
Viscosity, kinematic	:	1,000 - 35,000 mm <sup>2</sup> /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	:	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

**PURELL® Hand Sanitizer**

Version 1.2      Revision Date: 03/19/2015      MSDS Number: 46955-00003      Date of last issue: 02/10/2015  
Date of first issue: 01/13/2015

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Inhalation  
Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Product:**

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

**Ingredients:****Ethanol:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
  
Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

**Propan-2-ol:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
  
Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
  
Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result: No skin irritation

**Ingredients:****Ethanol:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Propan-2-ol:**

Species: Rabbit  
Result: No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Ingredients:**

**PURELL® Hand Sanitizer**

Version 1.2      Revision Date: 03/19/2015      MSDS Number: 46955-00003      Date of last issue: 02/10/2015  
Date of first issue: 01/13/2015

---

**Ethanol:**

Species: Rabbit  
Result: Irritation to eyes, reversing within 21 days  
Method: OECD Test Guideline 405

**Propan-2-ol:**

Species: Rabbit  
Result: Irritation to eyes, reversing within 21 days

**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.  
Respiratory sensitization: Not classified based on available information.

**Product:**

Assessment: Does not cause skin sensitization.

**Ingredients:****Ethanol:**

Test Type: Local lymph node assay (LLNA)  
Routes of exposure: Skin contact  
Species: Mouse  
Result: negative

**Propan-2-ol:**

Test Type: Buehler Test  
Routes of exposure: Skin contact  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative

**Germ cell mutagenicity**

Not classified based on available information.

**Ingredients:****Ethanol:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)  
Species: Mouse  
Application Route: Ingestion  
Result: negative

**Propan-2-ol:**

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)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative



## PURELL® Hand Sanitizer

Version 1.2      Revision Date: 03/19/2015      MSDS Number: 46955-00003      Date of last issue: 02/10/2015  
 Date of first issue: 01/13/2015

---

### Carcinogenicity

Not classified based on available information.

### Ingredients:

#### Propan-2-ol:

Species: Rat

Application Route: inhalation (vapor)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

#### IARC

No ingredient 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 toxicity

Not classified based on available information.

### Ingredients:

#### Ethanol:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study  
 Species: Mouse  
 Application Route: Ingestion  
 Method: OECD Test Guideline 416  
 Result: negative

#### Propan-2-ol:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative

Effects on fetal development

: Test Type: Embryo-fetal development  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative

### STOT-single exposure

Not classified based on available information.

### Ingredients:

#### Propan-2-ol:

Assessment: May cause drowsiness or dizziness.


**PURELL® Hand Sanitizer**

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

---

**STOT-repeated exposure**

Not classified based on available information.

**Repeated dose toxicity**
**Ingredients:**
**Ethanol:**

Species: Rat  
 NOAEL: 2,400 mg/kg  
 Application Route: Ingestion  
 Exposure time: 2 y

**Propan-2-ol:**

Species: Rat  
 NOAEL: 5000 ppm  
 Application Route: inhalation (vapor)  
 Exposure time: 104 w  
 Method: OECD Test Guideline 413

**Aspiration toxicity**

Not classified based on available information.

---

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Ingredients:**
**Ethanol:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
Toxicity to bacteria	:	EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h

**Propan-2-ol:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to algae	:	ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l

**PURELL® Hand Sanitizer**

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

---

Exposure time: 8 d

Toxicity to bacteria : EC50 (*Pseudomonas putida*): > 1,050 mg/l  
Exposure time: 16 h

**Persistence and degradability****Ingredients:****Ethanol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 20 d

**Propan-2-ol:**

Biodegradability : Result: rapidly degradable

**Bioaccumulative potential****Ingredients:****Ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0.35

**Propan-2-ol:**

Partition coefficient: n-octanol/water : log Pow: 0.05

**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.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****UNRTDG**

UN number : UN 1987  
Proper shipping name : ALCOHOLS, N.O.S.



**PURELL® Hand Sanitizer**

Version 1.2      Revision Date: 03/19/2015      MSDS Number: 46955-00003      Date of last issue: 02/10/2015  
 Date of first issue: 01/13/2015

(Ethanol, Propan-2-ol)  
 Class : 3  
 Packing group : III  
 Labels : 3

**IATA-DGR**

UN/ID No. : UN 1987  
 Proper shipping name : Alcohols, n.o.s.  
 (Ethanol, Propan-2-ol)  
 Class : 3  
 Packing group : III  
 Labels : Flammable Liquids  
 Packing instruction (cargo aircraft) : 366  
 Packing instruction (passenger aircraft) : 355

**IMDG-Code**

UN number : UN 1987  
 Proper shipping name : ALCOHOLS, N.O.S.  
 (Ethanol, Propan-2-ol)  
 Class : 3  
 Packing group : III  
 Labels : 3  
 EmS Code : F-E, S-D  
 Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

UN/ID/NA number : UN 1987  
 Proper shipping name : ALCOHOLS, N.O.S.  
 Class : 3  
 Packing group : III  
 Labels : FLAMMABLE LIQUID  
 ERG Code : 127  
 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


**PURELL® Hand Sanitizer**

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

---

**Acute Health Hazard**

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

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Propan-2-ol	67-63-0	3.013 %
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**US State Regulations**
**Pennsylvania Right To Know**

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %

**New Jersey Right To Know**

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %

**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:**

AICS : All ingredients listed or exempt.

**Inventories**

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

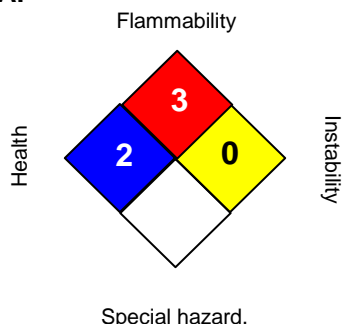
## PURELL® Hand Sanitizer

Version 1.2      Revision Date: 03/19/2015      MSDS Number: 46955-00003      Date of last issue: 02/10/2015  
 Date of first issue: 01/13/2015

## SECTION 16. OTHER INFORMATION

## Further information

## NFPA:



## HMIS III:

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

## Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	: 8-hour time weighted average

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 03/19/2015

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8



## MATERIAL SAFETY DATA SHEET

**IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300**

**1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:**

Product Name: **PURELL® Instant Hand Sanitizer Foam**

Company Name & Address: GOJO Industries, Inc.  
 One GOJO Plaza, Suite 500  
 Akron, OH 44311

**Emergency Phone: 1-800-424-9300 CHEMTREC**

Non-Emergency Phone: (330) 255-6000

MSDS Request Phone: (330) 255-6000 x8804

**2. INFORMATION ON INGREDIENTS:**

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	62% v/v
Isopropanol	67-63-0	400 ppm	200 ppm	< 5

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Ethyl Alcohol	64-17-5	MA 1; NJ 1S; PA 1; CN 2
Isopropanol	67-63-0	MA 1; NJ 1S; PA; CN 1

**3. HAZARDS IDENTIFICATION:**

**EMERGENCY OVERVIEW**

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

**Potential Health Effects:**

HMIS: Health 2 Flammability 3 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.  
 Skin Contact: No irritation or reaction expected.  
 Inhalation: Not an expected route of exposure  
 Ingestion: May cause upset stomach, nausea (Abnormal entry route).  
 Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

**4. FIRST AID MEASURES:**

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition worsens or irritation persists, contact physician.

Skin Contact: In the case of allergic reaction, see a physician.

Inhalation: Move to fresh air

Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

**5. FIRE FIGHTING MEASURES:**NFPA: Health   2   Fire   3   Reactivity   0  

Flashpoint °F/°C (PMCC method): 77.9°F/25.5°C

Unusual Fire and Explosion Hazards: Product is flammable due to alcohol content.

Special Fire Fighting Procedures: None known.

Extinguishing Media:   X   Water Fog   X   Alcohol Foam   X   CO<sub>2</sub>   X   Dry Chemical        Other**6. ACCIDENTAL RELEASE MEASURES:**

Avoid contact with ignition sources since product is flammable. Absorb onto inert material and dispose in appropriate manner. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

**7. HANDLING AND STORAGE:**

Keep away from fire or flame. Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

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

Eye Protection: None required under normal conditions.

Skin Protection: None required under normal conditions.

Respiratory Protection: None required under normal conditions.

Ventilation: None required under normal conditions.

Protective Equipment or Clothing: None required under normal conditions.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance and Odor Clear liquid, fruity fragrance

pH (undiluted): 5.5 - 9.0

VOC , %: &lt; 65%

**10. STABILITY AND REACTIVITY:**

Stable/Non reactive product. Avoid ignition sources.

**11. TOXICOLOGICAL INFORMATION:**

No acute or chronic toxic effects expected when used according to directions.

**12. ECOLOGICAL CONSIDERATIONS:**

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

**13. DISPOSAL CONSIDERATIONS:**

Characteristic hazardous waste-flammable liquid. Dispose according to local, state and Federal regulations.

**14. TRANSPORT INFORMATION:**

Hazardous by transport regulations. When transported by ground modes in the U.S., this product is typically shipped as Consumer Commodity ORM-D. When transported by water, this product is typically shipped as a UN1170 in Limited Quantities. Refer to all current transport regulations for exact requirements.

**15. REGULATORY AND OTHER INFORMATION:**

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(vi).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

This formula meets the FDA Food Code Hand Antiseptics (Sanitizers) criteria (Section 2-301.16).

WHMIS: Exempt under the Food and Drug Act

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTRIBUTOR'S INFORMATION						
NFA Rating: Health-2; Flammability-3; Reactivity-0; Special--			HMIS Rating: Health-2; Flammability-3; Reactivity-0; Personal Protection-B			
Manufactured For: WAXIE Enterprises, Inc. Address: P.O. Box 23506 Address: San Diego, CA 92193-3506			DOT Hazard Classification: ORM-D Identity (trade name as used on label): <b>Waxie Hospital Spray Surface Disinfectant</b>			
Phone: 1-800-995-4466			MSDS Number: 223 Revision- 10			
Emergency Response Number: 1-800-255-3924			Date Prepared: 10/05/00 Prepared By: DL/IB			
NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA Information Calls: 858-292-8111						
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ETHANOL		64-17-5	No	1000	1000	d
SODIUM NITRITE		7632-00-0	No	N/E	N/E	d
AMMONIUM HYDROXIDE		1336-21-6	No	35	25	d
ISOBUTANE / PROPANE BLEND		75-28-5	No	800	800	d
		74-98-6	No	1000	1000	d
METHANOL		67-56-1	Yes	200	200	d
O-PHENYLPHENOL		90-43-7	Yes	NE	NE	e
WARNING: This product contains a chemical or chemicals known to the State of California to cause cancer.						
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: N/A			Specific Gravity (H2O=1): Concentrate Only = 0.880			
Vapor Pressure: PSIG @ 70°F (Aerosols): Max.60			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A			
Vapor Density (Air = 1): N/E			Evaporation Rate ( = 1): N/E			
Solubility in Water: Soluble			Water Reactive: No			
Appearance and Odor: Clear, colorless spray, light airy fragrance.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) NON-FLAMMABLE		Auto Ignition Temperature N/E		Flammability Limits in Air by % in Volume: % LEL: N/E % UEL: N/E		
FLASH POINT AND METHOD USED (non-aerosols): N/A			EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide, water.			
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.						
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY [ X ] STABLE [ ] UNSTABLE			HAZARDOUS POLYMERIZATION [ ] WILL [ X ] WILL NOT OCCUR			
Incompatibility (Mat. to avoid): Oxidants, reducing agents, ammonium salts.			Conditions to Avoid: Open flame, welding arcs, heat, sparks.			
Hazardous Decomposition Products: CO, CO2.						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: [ X ] INHALATION [ ] INGESTION [ ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS						
ACUTE EFFECTS						
Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.						
Eye Contact: Mild irritation.			Skin Contact: Possible mild irritation.			
Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea.						
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) Overexposure may cause kidney damage, liver abnormalities, brain damage.						
Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention.						
Skin Contact: Wash with soap and water. If irritated, seek medical attention.						
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode.						
Protective Gloves: Latex, if skin easily irritated.			Eye Protection: Safety glasses recommended.			
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.						
Other Protective Clothing & Equipment: None						
Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations.						
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.						
Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. Remove ignition sources. Do not use on polished wood furniture or rayon fabrics.						

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.  
 \*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only