Material Name: WEBCOL/Curity Alcohol Prep Pads

Trade Names
5033, 5110, 5750, 6818, 6818-1, 63001, 15033, 16818, 176818, 20339, 681812, 6818-2, 7MJ46621, 7MJ36339, 7RA58200, 7RA71200, 7RI43405, 7RI45719, 7RI45720, 7RI45721, 7RI45722, 7RI82380, 7RI82402, 70Y33230, 985629, MKN42634, 693035, 121-6131, 6818M, GS42634

Synonyms
Isopropyl Alcohol 65-75%

Chemical Family
ISOPROPYL ALCOHOL

Product Use
Skin preparation pads for use in medical applications

Restrictions on Use
For use under medical supervision only.

Manufacturer Information
Covidien, LP
15 Hampshire Street
Mansfield, MA 02048
USA
Phone: +1-(508) 261-8000 (Monday - Friday 8:00 am to 5:00 pm)
Email: customerservice@medtronic.com

Emergency Telephone Number:
CHEMTREC (800) 424-9300 (for US and Canada)
1(703) 527-3887 (Outside US and Canada)
 Collect calls accepted

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Serious Eye Damage/Eye Irritation - Category 2A

GHS Label Elements
Symbol(s)
Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

Signal Word
Danger

Hazard Statement(s)
Highly flammable liquid and vapor
Causes serious eye irritation

Precautionary Statement(s)

Prevention
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Wash thoroughly after handling

Response
In case of fire: Use appropriate media to extinguish
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Storage
Store in a cool dry place

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards
No additional information available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>25 - 35</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>65 - 75</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Inhalation
Not a likely route of exposure.

Skin
It is unlikely that first aid will be required. If skin irritation occurs: Get medical advice/attention.

Eyes
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion
If swallowed, get medical attention.
Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media
None known.

Special Hazards Arising from the Chemical
Highly flammable liquid and vapor.

Hazardous Combustion Products
Oxides of carbon

Advice for firefighters
Avoid inhalation of material or combustion by-products.

Fire Fighting Measures
Avoid inhalation of material or combustion by-products.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment.

Methods and Materials for Containment and Cleaning Up
Clear up spills immediately and dispose of waste safely.

Environmental Precautions
Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Keep away from heat/sparks/open flames/hot surfaces.

Conditions for Safe Storage, Including any Incompatibilities
Store in a cool dry place
Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA (US)</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>400 ppm TWA; 980 mg/m3 TWA</td>
<td>400 ppm TWA; 980 mg/m3 TWA</td>
<td>400 ppm TWA LMPE-PPT; 980 mg/m3 TWA LMPE-PPT</td>
</tr>
<tr>
<td></td>
<td>200 ppm TWA</td>
<td>500 ppm STEL; 1225 mg/m3 STEL</td>
<td>500 ppm STEL [LMPE-CT]; 1225 mg/m3 STEL [LMPE-CT]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>400 ppm STEL</td>
<td>2000 ppm IDLH (10% LEL)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Biological limit value
There are no biological limit values for any of this product's components.

Engineering Controls
Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Safety glasses or goggles are recommended when there is a potential for eye contact.

Skin Protection
Not required.

Respiratory Protection
No respirator is required under normal conditions of use.

Glove Recommendations
Hand protection is not required.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Non-woven cloth saturated with liquid in foil package</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Property</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>82 °C (literature value)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>-89 °C (literature value)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition</td>
<td>399 °C (literature value)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>12 °C (estimate based on isopropyl alcohol)</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>2 % (V)</td>
</tr>
<tr>
<td>Decomposition</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>12 % (V)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>33 mmHg (@ 20 °C - literature value)</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>2.1 (literature value)</td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>0.7855 (@ 20 °C - literature value)</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>100%</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>0.05 (measured value)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Other Information**
No additional information available.

---

**Section 10 - STABILITY AND REACTIVITY**

**Reactivity**
Not known to occur.

**Chemical Stability**
Stable under normal conditions of use.

**Possibility of Hazardous Reactions**
Hazardous polymerization will not occur.

**Conditions to Avoid**
Avoid direct sunlight.

**Incompatible Materials**
Aldehydes, halogenated compounds, halogens, strong acids, strong oxidizing agents

**Hazardous decomposition products**
Oxides of carbon
Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
Not a likely route of exposure.

Skin Contact
None known.

Eye Contact
Causes serious eye irritation.

Ingestion
None known.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Isopropyl alcohol (67-63-0)
Oral LD50 Rat 5045 mg/kg (Safety Data Sheet)
Dermal LD50 Rabbit 12800 mg/kg (Safety Data Sheet)
Inhalation LC50 Rat 1600 ppm 4 h (Safety Data Sheet)

Immediate Effects
Causes serious eye irritation.

Delayed Effects
No information on significant adverse effects.

Irritation/Corrosivity Data
Causes serious eye irritation.

Respiratory Sensitization
No data available.

Dermal Sensitization
No data available.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td></td>
<td>IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))</td>
</tr>
</tbody>
</table>

Germ Cell Mutagenicity
No data available.

Reproductive Toxicity
No data available.
Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

Specific Target Organ Toxicity - Single Exposure
No information available.

Specific Target Organ Toxicity - Repeated Exposure
No information available.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
May cause eye damage, eye disorders.

Additional Data
No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Avoid release to the environment.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Aquatic Toxicity Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
</tr>
<tr>
<td>Fish:</td>
<td>LC50 96 h Pimephales promelas 9640 mg/L [flow-through]; LC50 96 h Pimephales promelas 11130 mg/L [static]; LC50 96 h Lepomis macrochirus &gt;1400000 µg/L</td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 96 h Desmodesmus subspicatus &gt;1000 mg/L IUCLID; EC50 72 h Desmodesmus subspicatus &gt;1000 mg/L IUCLID</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna 13299 mg/L IUCLID</td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available for the product.

Bioaccumulative Potential
No information available for the product.

Mobility
No information available for the product.

Other Toxicity
No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose in accordance with all applicable regulations.
Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name: Not applicable
Hazard Class: Not applicable
UN/NA #: Not regulated per 49 CFR, Special Provision 47 (for rail and road transport in the USA)
Packing Group: Not applicable
Required Label(s): Not applicable
Additional information: No additional information available

IATA Information:
Shipping Name: Not applicable
Hazard Class: Not applicable
UN#: Not regulated, as per IATA, Special Provision A46
Packing Group: Not applicable
Required Label(s): Not applicable
Additional information: Consult current IATA regulations prior to shipping by air

IMDG Information:
Shipping Name: Not applicable
Hazard Class: Not applicable
UN#: Not regulated, as per IMDG Code, Special Provision 216
Packing Group: Not applicable
Required Label(s): Not applicable
Additional information: No additional information available

TDG Information:
Shipping Name: Not applicable
Hazard Class: Not applicable
UN#: Not regulated
Packing Group: Not applicable
Required Label(s): Not applicable
Additional information: No additional information available

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b).

<table>
<thead>
<tr>
<th>Chemical</th>
<th>UN#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
</tr>
<tr>
<td>SARA 313</td>
<td>1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)</td>
</tr>
</tbody>
</table>
Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>1%</td>
</tr>
</tbody>
</table>

Section 16 - OTHER INFORMATION

Summary of Changes
New SDS: May 5, 2015

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP - National Toxicology Program; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NIOSHR - New Jersey Trade Secret Registry; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States; WHMIS - Workplace Hazardous Materials Information System

Other Information

Disclaimer:
The information and recommendations in this safety data sheet are based on sources believed to be accurate as of the date of issue. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Covidien LP makes NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED and usage of this safety data sheet shall not establish a legal, contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose. Covidien LP assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Covidien LP assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Users should ensure that any use or disposal of the material is in accordance with applicable national, country, federal, state, and local laws, directives, orders and regulations.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name
ChloraPrep Solutions

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

1.2.1. Relevant identified uses
Use of the substance/mixture
Antimicrobial

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
CareFusion
75 N. Fairway Drive
Vernon Hills, IL 60061
T 800-523-0502 - F 855-329-6986

1.4. Emergency telephone number
Emergency number
For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN702157
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)
Within EU: +(44)-870-8200418
CHEMTREC UK (London): +(44)-870-8200418

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP] and GHS US
Flam. Liq. 2 H225
Eye Irrit. 2 H319
STOT SE 3 H336
STOT SE 3 H335
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC
F: R11
Xi; R36
R67
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Labeling according to Regulation (EC) No. 1272/2008 [CLP] and GHS US
Hazard pictograms

Signal word
Danger

Hazard statements
H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness

Precautionary statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

30/03/2015
EN (English US)
2.3. Other hazards
No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance
Not applicable

#### 3.2. Mixture

**ChloraPrep® Clear**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Directive 67/548/EEC</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0</td>
<td>70</td>
<td>F; R11; Xi; R36 R67</td>
<td>Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td>Chlorhexidine digluconate</td>
<td>(CAS No) 18472-51-0 (EC no) 242-354-0</td>
<td>2</td>
<td>Not classified</td>
<td>Acute Tox. 4 (Oral), H302</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

**ChloraPrep® Hi-Lite Orange**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Directive 67/548/EEC</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0</td>
<td>70</td>
<td>F; R11; Xi; R36 R67</td>
<td>Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td>Chlorhexidine digluconate</td>
<td>(CAS No) 18472-51-0 (EC no) 242-354-0</td>
<td>2</td>
<td>Not classified</td>
<td>Acute Tox. 4 (Oral), H302</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>FD and C Yellow No. 6</td>
<td>(CAS No) 2783-94-0 (EC no) 220-491-7</td>
<td>0 - 0.1</td>
<td>Not classified</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**ChloraPrep® Teal Green**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Directive 67/548/EEC</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0</td>
<td>70</td>
<td>F; R11; Xi; R36 R67</td>
<td>Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td>Chlorhexidine digluconate</td>
<td>(CAS No) 18472-51-0 (EC no) 242-354-0</td>
<td>2</td>
<td>Not classified</td>
<td>Acute Tox. 4 (Oral), H302</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>C.I. Food Green 3</td>
<td>(CAS No) 2353-46-9 (EC no) 219-091-5</td>
<td>0 - 0.1</td>
<td>Not classified</td>
<td>Muta. 2, H341</td>
<td>Muta. 2, H341</td>
</tr>
</tbody>
</table>

Full text of R- and H- phrases: see section 16
SECTION 4: First aid measures
4.1. Description of first aid measures
First-aid measures after inhalation: If symptoms of exposure develop, move to fresh air. Seek medical attention if symptoms persist.
First-aid measures after skin contact: Wash material off the skin with copious amounts of water. If redness or a burning sensation develops, seek medical attention and discontinue use.
First-aid measures after eye contact: Flush with copious amounts of water. After initial flushing remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and treated by medical personnel immediately.
First-aid measures after ingestion: Give individual one to two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person).

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness and drowsiness.
Symptoms/injuries after skin contact: May cause irritation, drying, defatting of the skin. Prolonged contact may cause dermatitis.
Symptoms/injuries after eye contact: Contact may cause severe irritation with redness, tearing and pain with possible eye damage.
Symptoms/injuries after ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation, abdominal pain, nausea, vomiting, dizziness and drowsiness.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media: Water fog, alcohol-resistant foam, carbon dioxide or dry chemical. Water spray can be used to cool exposed containers and structures, dilute spills and disperse flammable vapors.
Unsuitable extinguishing media: None.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Highly flammable liquid and vapor. Ampoules may explode if exposed to extreme heat or flame. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back.
Explosion hazard: None known.

5.3. Advice for firefighters
Protection during firefighting: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
General measures: No special measures required.

6.1.1. For non-emergency personnel
No additional information available

6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment: Stop the flow of material, if this is without risk.
Methods for cleaning up: Wear skin, eye and respiratory protection during cleanup. For small spills, wipe or mop up and rinse to sewer serviced by a wastewater treatment facility. For large spills, eliminate sources of ignition and ventilate spill area. Soak up liquid with inert absorbent and collect into a suitable waste container. Wash residue from spill area with water and flush to sewer serviced by a wastewater treatment facility if permitted.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: Avoid prolonged exposure (ingestion, inhalation, or skin contact). Avoid breathing vapors. Use in well-ventilated areas. Keep product away from heat, sparks and flames.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a cool, dry, well-ventilated area away from incompatible chemicals and all sources of ignition.
### 8.1. Control parameters

<table>
<thead>
<tr>
<th>Country</th>
<th>Parameter Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>MAK (mg/m³)</td>
<td>500 mg/m³ (short time value for large casting)</td>
</tr>
<tr>
<td>Austria</td>
<td>MAK (ppm)</td>
<td>200 ppm (short time value for large casting)</td>
</tr>
<tr>
<td>Austria</td>
<td>MAK Short time value (mg/m³)</td>
<td>2000 mg/m³ (STEL for large casting valid till 12/31/2013)</td>
</tr>
<tr>
<td>Austria</td>
<td>MAK Short time value (ppm)</td>
<td>800 ppm (STEL for large casting valid till 12/31/2013)</td>
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<tr>
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<td>Limit value (mg/m³)</td>
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<tr>
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<td>Limit value (ppm)</td>
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</tr>
<tr>
<td>Bulgaria</td>
<td>OEL TWA (mg/m³)</td>
<td>980.0 mg/m³</td>
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<tr>
<td>Bulgaria</td>
<td>OEL STEL (mg/m³)</td>
<td>1225.0 mg/m³</td>
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<tr>
<td>Croatia</td>
<td>GVI (гранична vrijednost izloženosti) (mg/m³)</td>
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<td>GVI (гранична vrijednost izloženosti) (ppm)</td>
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<td>KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)</td>
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<td>Czech Republic</td>
<td>Exposure limits (PEL) (mg/m³)</td>
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<td>Limit (long-term) (mg/m³)</td>
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<td>HTP-arvo (8h) (mg/m³)</td>
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<td>HTP-arvo (8h) (ppm)</td>
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<td>Finland</td>
<td>HTP-arvo (15 min)</td>
<td>620 mg/m³</td>
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<tr>
<td>France</td>
<td>VLE (mg/m³)</td>
<td>980 mg/m³</td>
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<td>VLE (ppm)</td>
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<tr>
<td>Germany</td>
<td>TRGS 900 Occupational exposure limit value (mg/m³)</td>
<td>500 mg/m³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)</td>
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<td>TRGS 900 Occupational exposure limit value (ppm)</td>
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<td>TRGS 903 (BGW)</td>
<td>25 mg/l (Medium: whole blood - Time: end of shift - Parameter: Acetone) 25 mg/l (Medium: urine - Time: end of shift - Parameter: Acetone)</td>
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<td>Greece</td>
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<td>Hungary</td>
<td>Exposure Limit Value</td>
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<td>CK-érték</td>
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<td>OEL (8 hours ref) (ppm)</td>
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<td>OEL (15 min ref) (ppm)</td>
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<td>IPRV (mg/m³)</td>
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<td>IPRV (ppm)</td>
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<td>NDSCh (mg/m³)</td>
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<td>NPHV (priemerná) (mg/m³)</td>
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<td>NPHV (Hraničná) (mg/m³)</td>
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<td>OEL TWA (ppm)</td>
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<td>OEL STEL (mg/m³)</td>
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<td>500 mg/m³ (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)</td>
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<td>kortidsvärde (KTV) (mg/m³)</td>
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<td>kortidsvärde (KTV) (ppm)</td>
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<td>WEL TWA (mg/m³)</td>
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<td>WEL TWA (ppm)</td>
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<td>VME (mg/m³)</td>
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<td>VME (ppm)</td>
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<td>VLE (ppm)</td>
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<td>TWA (mg/m³)</td>
<td>983 mg/m³</td>
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<td>TWA (ppm)</td>
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</tr>
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<td>STEL (mg/m³)</td>
<td>1230 mg/m³</td>
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<tr>
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<td>STEL (ppm)</td>
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<tr>
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<td>Canada (Quebec)</td>
<td>VEMP (ppm)</td>
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<td>ACGIH TWA (ppm)</td>
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<td>ACGIH STEL (ppm)</td>
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<td>US IDLH (ppm)</td>
<td>2000 ppm (10% LEL)</td>
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<td>NIOSH REL (TWA) (mg/m³)</td>
<td>980 mg/m³</td>
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<td>USA - NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>400 ppm</td>
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<tr>
<td>USA - NIOSH</td>
<td>NIOSH REL (STEL) (mg/m³)</td>
<td>1225 mg/m³</td>
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</table>
8.2. Exposure controls

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.

Hand protection: Latex rubber for limited contact. Butyl rubber or nitrile recommended for prolonged contact.

Eye protection: Safety glasses or goggles recommended if eye contact is possible.

Skin and body protection: Wear suitable working clothes.

Respiratory protection: If the exposure limits are exceeded a NIOSH/EN approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Clear in product; when activated, clear orange, teal
Color: Clear, orange, or teal
Odor: Odourless
Odor threshold: No data available
pH: 7 - 7.5
Relative evaporation rate (butyl acetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: 19.4°C (67 °F)
Auto-ignition temperature: 2 - 12.7
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: 0.88
Solubility: Water: Complete
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
 Explosive properties: No data available
Oxidizing properties: No data available
Explosive limits: No data available

9.2. Other information

VOC content: 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Extreme heat, sparks or flame.

10.5. Incompatible materials

Oxidizing materials

10.6. Hazardous decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, chlorine compounds.
**SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

**Acute toxicity**
- Not classified

### Isopropyl alcohol (67-63-0)
- LD50 oral rat: 4396 mg/kg
- LD50 dermal rabbit: 12800 mg/kg
- LC50 inhalation rat (ppm): 16000 ppm (Exposure time: 8 h)

### Chlorhexidine digluconate (18472-51-0)
- ATE (oral): 500,000 mg/kg

**Skin corrosion/irritation**
- Not classified

**Serious eye damage/irritation**
- Causes serious eye irritation.

**Respiratory or skin sensitization**
- Not classified

**Germ cell mutagenicity**
- Not classified

**Carcinogenicity**
- Not classified

### Isopropyl alcohol (67-63-0)
- IARC group: 3 - Not classifiable

### C.I. Food Green 3 (2353-45-9)
- IARC group: 3 - Not classifiable

### FD and C Yellow No. 6 (2783-94-0)
- IARC group: 3 - Not classifiable

**Reproductive toxicity**
- Not classified

**Specific target organ toxicity (single exposure)**
- May cause drowsiness or dizziness. May cause respiratory irritation.

**Specific target organ toxicity (repeated exposure)**
- Not classified

**Aspiration hazard**
- Not classified

**SECTION 12: Ecological information**

### 12.1. Toxicity

### Isopropyl alcohol (67-63-0)
- LC50 fishes 1: 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
- EC50 Daphnia 1: 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
- EC50 other aquatic organisms 1: > 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
- LC50 fish 2: 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
- EC50 other aquatic organisms 2: > 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

### 12.2. Persistence and degradability
No additional information available

### 12.3. Bioaccumulative potential

### Isopropyl alcohol (67-63-0)
- Log Pow: 0.05 (at 25 °C)

### 12.4. Mobility in soil
No additional information available

### 12.5. Results of PBT and vPvB assessment
No additional information available

### 12.6. Other adverse effects
No additional information available

**SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods
- Dispose of contents/container in accordance with local/regional/national/international regulations.

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / AND / US DOT
14.1. UN number
UN-No. : 1219

14.2. UN proper shipping name
Proper Shipping Name : ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)
Transport hazard class(es) : 3
Danger labels : 3

14.4. Packing group
Packing group : II

14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user
14.6.1. Overland transport
Classification code (ADR) : F1
Special provision (ADR) : 601
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02, R001
Mixed packing provisions (ADR) : MP19
Mixed Portable tank and bulk container instructions (ADR) : T4
Mixed Portable tank and bulk container special provisions (ADR) : TP1
ADR tank codes (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33
Orange plates : 
Tunnel restriction code (ADR) : D/E
EAC : •2YE

14.6.2. Transport by sea
14.6.3. Air transport
14.6.4. Inland waterway transport
Not subjected to ADN : No
14.6.5. Rail transport
Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable
SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions
Contains no REACH candidate substance
Contains no REACH Annex XIV substances.

VOC content: 100 %

15.1.2. National regulations

Germany
Water hazard class (WGK): 2 - hazardous to water

15.2. Chemical safety assessment
No additional information available

15.3. US Federal regulations

**Isopropyl alcohol (67-63-0)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag: T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting: 1.0 % (only if manufactured by the strong acid process, no supplier notification)

**C.I. Food Green 3 (2353-45-9)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Chlorhexidine digluconate (18472-51-0)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**FD and C Yellow No. 6 (2783-94-0)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.4. US State regulations

**Isopropyl alcohol (67-63-0)**
U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

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<thead>
<tr>
<th>R-Phrase</th>
<th>EUH-Phrase</th>
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<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
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<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation Category 2</td>
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<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids Category 2</td>
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<tr>
<td>Muta. 2</td>
<td>Germ cell mutagenicity Category 2</td>
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<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>STOT SE 3</td>
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<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects</td>
</tr>
<tr>
<td>R11</td>
<td>Highly flammable</td>
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<tr>
<td>R36</td>
<td>Irritating to eyes</td>
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<tr>
<td>R67</td>
<td>Vapors may cause drowsiness and dizziness</td>
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<tr>
<td>F</td>
<td>Highly flammable</td>
</tr>
<tr>
<td>Xi</td>
<td>Irritant</td>
</tr>
</tbody>
</table>
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
WEBCOL/Curity Alcohol Prep Pads

Trade Names
5033, 5110, 5750, 6818, 6818-1, 63001, 15033, 16818, 176818, 20339, 681812, 6818-2, 7MJ46621,
7MJ36339, 7RA58200, 7RA71200, 7RI43405, 7RI45719, 7RI45720, 7RI45721, 7RI45722, 7RI82380,
7RI82402, 70Y33230, 985629, MKN42634, 693035, 121-6131, 6818M, GS42634

Synonyms
Isopropyl Alcohol 65-75%

Chemical Family
ISOPROPYL ALCOHOL

Product Use
Skin preparation pads for use in medical applications

Restrictions on Use
For use under medical supervision only.

Manufacturer Information
Covidien, LP
15 Hampshire Street
Mansfield, MA 02048
USA
Phone: +1-(508) 261-8000 (Monday - Friday 8:00 am to 5:00 pm)
Email: customerservice@medtronic.com

Emergency Telephone Number:
CHEMTREC (800) 424-9300 (for US and Canada)
1(703) 527-3887 (Outside US and Canada)
Collect calls accepted

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Serious Eye Damage/Eye Irritation - Category 2A

GHS Label Elements
Symbol(s)

Page 1 of 9
Issue date: 2015-04-30   Revision 1.0   Print date: 2015-05-05
Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

Signal Word
Danger

Hazard Statement(s)
Highly flammable liquid and vapor
Causes serious eye irritation

Precautionary Statement(s)

Prevention
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Wash thoroughly after handling

Response
In case of fire: Use appropriate media to extinguish
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Storage
Store in a cool dry place

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards
No additional information available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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<th>CAS</th>
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<th>Percent (%)</th>
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<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>25 - 35</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>65 - 75</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Inhalation
Not a likely route of exposure.

Skin
It is unlikely that first aid will be required. If skin irritation occurs: Get medical advice/attention.

Eyes
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion
If swallowed, get medical attention.
Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute
Causes serious eye irritation.

Delayed
No information on significant adverse effects.

---

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media
None known.

Special Hazards Arising from the Chemical
Highly flammable liquid and vapor.

Hazardous Combustion Products
Oxides of carbon

Advice for firefighters
Avoid inhalation of material or combustion by-products.

Fire Fighting Measures
Avoid inhalation of material or combustion by-products.

---

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment.

Methods and Materials for Containment and Cleaning Up
Clear up spills immediately and dispose of waste safely.

Environmental Precautions
Avoid release to the environment.

---

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Keep away from heat/sparks/open flames/hot surfaces.

Conditions for Safe Storage, Including any Incompatibilities
Store in a cool dry place
Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Isopropyl alcohol 67-63-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH:</td>
<td>200 ppm TWA</td>
</tr>
<tr>
<td></td>
<td>400 ppm STEL</td>
</tr>
<tr>
<td>NIOSH:</td>
<td>400 ppm TWA; 980 mg/m3 TWA</td>
</tr>
<tr>
<td></td>
<td>500 ppm STEL; 1225 mg/m3 STEL</td>
</tr>
<tr>
<td></td>
<td>2000 ppm IDLH (10% LEL)</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>400 ppm TWA; 980 mg/m3 TWA</td>
</tr>
<tr>
<td>Mexico:</td>
<td>400 ppm TWA LMPE-PPT; 980 mg/m3 TWA LMPE-PPT</td>
</tr>
<tr>
<td></td>
<td>500 ppm STEL [LMPE-CT]; 1225 mg/m3 STEL [LMPE-CT]</td>
</tr>
</tbody>
</table>

Biological limit value
There are no biological limit values for any of this product's components.

Engineering Controls
Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Safety glasses or goggles are recommended when there is a potential for eye contact.

Skin Protection
Not required.

Respiratory Protection
No respirator is required under normal conditions of use.

Glove Recommendations
Hand protection is not required.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Non-woven cloth saturated with liquid in foil package</th>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Alcohol</td>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
<td>pH</td>
<td>Not available</td>
</tr>
</tbody>
</table>
### Other Information
No additional information available.

---

### Section 10 - STABILITY AND REACTIVITY

**Reactivity**
Not known to occur.

**Chemical Stability**
Stable under normal conditions of use.

**Possibility of Hazardous Reactions**
Hazardous polymerization will not occur.

**Conditions to Avoid**
Avoid direct sunlight.

**Incompatible Materials**
Aldehydes, halogenated compounds, halogens, strong acids, strong oxidizing agents

**Hazardous decomposition products**
Oxides of carbon
Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
Not a likely route of exposure.

Skin Contact
None known.

Eye Contact
Causes serious eye irritation.

Ingestion
None known.

Acute and Chronic Toxicity
Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Isopropyl alcohol (67-63-0)
Oral LD50 Rat 5045 mg/kg (Safety Data Sheet)
Dermal LD50 Rabbit 12800 mg/kg (Safety Data Sheet)
Inhalation LC50 Rat 1600 ppm 4 h (Safety Data Sheet)

Immediate Effects
Causes serious eye irritation.

Delayed Effects
No information on significant adverse effects.

Irritation/Corrosivity Data
Causes serious eye irritation.

Respiratory Sensitization
No data available.

Dermal Sensitization
No data available.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td>IARC</td>
<td>Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))</td>
</tr>
</tbody>
</table>

Germ Cell Mutagenicity
No data available.

Reproductive Toxicity
No data available.
Specific Target Organ Toxicity - Single Exposure
No information available.

Specific Target Organ Toxicity - Repeated Exposure
No information available.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
May cause eye damage, eye disorders.

Additional Data
No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Avoid release to the environment.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
</tr>
</tbody>
</table>

Fish:
LC50 96 h Pimephales promelas 9640 mg/L [flow-through]; LC50 96 h Pimephales promelas 11130 mg/L [static]; LC50 96 h Lepomis macrochirus >1400000 µg/L

Algae:
EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID; EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID

Invertebrate:
EC50 48 h Daphnia magna 13299 mg/L IUCLID

Persistence and Degradability
No information available for the product.

Bioaccumulative Potential
No information available for the product.

Mobility
No information available for the product.

Other Toxicity
No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose in accordance with all applicable regulations.
US DOT Information:
Shipping Name: Not applicable
Hazard Class: Not applicable
UN/NA #: Not regulated per 49 CFR, Special Provision 47 (for rail and road transport in the USA)
Packing Group: Not applicable
Required Label(s): Not applicable
Additional information: No additional information available

IATA Information:
Shipping Name: Not applicable
Hazard Class: Not applicable
UN#: Not regulated, as per IATA, Special Provision A46
Packing Group: Not applicable
Required Label(s): Not applicable
Additional information: Consult current IATA regulations prior to shipping by air

IMDG Information:
Shipping Name: Not applicable
Hazard Class: Not applicable
UN#: Not regulated, as per IMDG Code, Special Provision 216
Packing Group: Not applicable
Required Label(s): Not applicable
Additional information: No additional information available

TDG Information:
Shipping Name: Not applicable
Hazard Class: Not applicable
UN#: Not regulated
Packing Group: Not applicable
Required Label(s): Not applicable
Additional information: No additional information available

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b).

<table>
<thead>
<tr>
<th>Chemical</th>
<th>UN Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
</tr>
<tr>
<td>SARA 313:</td>
<td>1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)</td>
</tr>
</tbody>
</table>
Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>1%</td>
</tr>
</tbody>
</table>

Section 16 - OTHER INFORMATION

Summary of Changes
New SDS: May 5, 2015

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NIOSH - National Institute for Occupational Safety and Health; NIOSH - National Institute for Occupational Safety and Health; NTPSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States; WHMIS - Workplace Hazardous Materials Information System

Other Information
Disclaimer:
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