1.1 Product identifier
Material Name
Xeroform Occlusive Dressing
Synonyms
8884-433301, 8884-433400, 8884-433500, 8884-433605, 8884-432000, 8884-431302, 8884-431605
Substance Registration Number(s)
REACH obligation for the substances in this product is under review.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Occlusive wound dressings
Uses advised against
For use under medical supervision only.

1.3 Details of the supplier of the safety data sheet
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

1.4 Emergency telephone number
CHEMTREC (800) 424-9300 (for US and Canada), 1(703) 527-3887 (Outside US and Canada), Collect calls accepted

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
None needed according to classification criteria

2.2 Label elements
Labeling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard symbols
None needed according to classification criteria
Signal word
None needed according to classification criteria
Hazard statements
None needed according to classification criteria
Precautionary statements

Prevention
None needed according to classification criteria

Response
None needed according to classification criteria

Storage
None needed according to classification criteria

Disposal
P501 Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other hazards
No additional information available.

SECTION 3: Composition / information on ingredients

<table>
<thead>
<tr>
<th>CAS EC No Registration No</th>
<th>Component Name Synonyms</th>
<th>1272/2008 (CLP)</th>
<th>Percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8009-03-8</td>
<td>Petroleum jelly</td>
<td>Note(s): No classification</td>
<td>&gt;90</td>
</tr>
<tr>
<td>232-373-2</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5175-83-7</td>
<td>Bismuth tribromophenate</td>
<td>Note(s): No classification</td>
<td>3-10</td>
</tr>
<tr>
<td>225-958-9</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation
It is unlikely that first aid will be required.

Skin
It is unlikely that first aid will be required. Get medical attention if irritation develops.

Eyes
Rinse cautiously with water for several minutes. If eye irritation persists, get medical advice/attention.

Ingestion
If swallowed, get medical attention.
4.2 Most Important Symptoms/Effects

Acute
May cause mild eye irritation.

Delayed
May cause kidney damage.

4.3 Indication of Immediate Medical Attention and Special Treatment
Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media
Do not use water jets.

5.2 Special hazards arising from the substance or mixture
None known.

Combustion
Oxides of carbon. oxides of bismuth, hydrobromic acid

5.3 Advice for firefighters
Slight fire hazard.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protective clothing and equipment.

6.2 Environmental precautions
Avoid release to the environment.

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

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Observe good hygiene and safety practices when handling this product.
7.2 Conditions for safe storage, including any incompatibilities
Store in a cool, dry place. Protect from sunlight.

Incompatible Materials
Strong oxidizing agents

7.3 Specific end use(s)
Occlusive wound dressings

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Component Exposure Limits
EU, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Netherlands, Portugal, Spain, Sweden and United Kingdom have not developed exposure limits for any of this product's components.

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

Derived No Effect Levels (DNELs)
No DNELs available.

Predicted No Effect Concentrations (PNECs)
No PNECs available.

8.2 Exposure Controls
Engineering controls
Based on available information, additional ventilation is not required.

Eye/face protection
Eye protection not required under normal conditions. 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
Not required.

---

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Odor</th>
<th>Odor Threshold</th>
<th>Physical State</th>
<th>Color</th>
<th>pH</th>
<th>Solid</th>
<th>Mustard yellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow ointment</td>
<td>Slight phenol</td>
<td>Not available</td>
<td>Solid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---
Melting Point | Not available | Boiling Point | Not available
---|---|---|---
Freezing point | Not available | Evaporation Rate | Not available
Boiling Point Range | Not available | Flammability (solid, gas) | Not available
Autoignition | Not available | Flash Point | Not available
Lower Explosive Limit | Not applicable | Decomposition | Not available
Upper Explosive Limit | Not applicable | Vapor Pressure | Not available
Vapor Density (air=1) | Not available | Specific Gravity (water=1) | Not available
Water Solubility | Insoluble | Partition coefficient: n-octanol/water | Not available
Viscosity | Not available | Solubility (Other) | Not available
Density | Not available | | |

9.2 Other information
No additional information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
Not known to occur.

10.2 Chemical stability
Stable under normal conditions of use.

10.3 Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4 Conditions to avoid
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Oxides of carbon, oxides of bismuth, hydrobromic acid, smoke, fumes
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Petroleum jelly (8009-03-8)
Dermal LD50 Rabbit 3600 mg/kg

Irritation/Corrosivity Data
May cause mild eye irritation.

Respiratory Sensitization
No data available.

Dermal Sensitization
No data available.

Germ Cell Mutagenicity
No data available.

Component Carcinogenicity
None of this product's components are listed by IARC or DFG.

Reproductive toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
No data available.

Specific Target Organ Toxicity - Repeated Exposure
May cause kidney damage.

Aspiration hazard
No hazard expected.

SECTION 12: Ecological information

12.1 Toxicity
Avoid release to the environment.

Component Analysis - Aquatic Toxicity
No LOLI ecotoxicity data are available for this product's components

12.2 Persistence and degradability
No information available for the product.

12.3 Bioaccumulative potential
No information available for the product.
12.4 Mobility in soil
No information available for the product.

12.5 Results of PBT and vPvB assessment
EU - Interim Strategy for Management of PBT and vPvB Substances
No components of this material are listed.

12.6 Other adverse effects
No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

Component Marine Pollutants (IMDG)
Not regulated as dangerous goods.

<table>
<thead>
<tr>
<th></th>
<th>ADR</th>
<th>RID</th>
<th>ICAO</th>
<th>IATA</th>
<th>ADN</th>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN Number</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
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<tr>
<td>14.2 UN Proper Shipping Name</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.3 Transport Hazard Class(es)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4 Packing Group</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.5 Environmental Hazards</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.6 Special Precautions For User</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.7 Transport in Bulk According to Annex II or MARPOL</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
14.8 Additional information

No additional information available

No additional information available

Consult current IATA regulations prior to shipping by air

No additional information available

No additional information available

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>IBC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum jelly</td>
<td>8009-03-8</td>
</tr>
</tbody>
</table>

**SECTION 15: Regulatory information**

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

**EU - REACH (1907/2006) - Annex XIV List of Substances Subject to Authorization**
No components of this material are listed.

**EU - REACH (1907/2006) - Article 59(1) Candidate List of Substances Subject to Authorization**
No components of this material are listed.

**EU - REACH (1907/2006) - Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles**

REACH List of Substances Subject to Restriction (Annex XVII) - Reg. (EU) No. 1907/2006
This list includes substances subject to Restriction. Under REACH, these substances are subject to restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Petroleum jelly (8009-03-8)
Use restricted. See item 28.

**EU - Biocides (1451/2007) - Existing Active Substance**
No components of this material are listed.

**Germany Regulations**
**Germany Water Classification**
No components of this material are listed.

**Denmark Regulations**
No components of this material are listed.

15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out for the substance/mixture.
SECTION 16: Other information

16.1 Indication of changes
New SDS: April 30, 2015

16.2 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; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NITSR - 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

16.3 Key literature references and sources for data
Available upon request.

16.4 Methods Used for Classification of Mixture According to Regulation (EC) No 1272/2008
Available upon request.

16.5 Relevant R-, H- and EUH-phrases (Number and full text)
None needed according to classification criteria

16.6 Training advice
Read the Safety Data Sheet before handling product.

16.7 Further 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.