

**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

# SAFETY DATA SHEET

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
326895	SWAB ALCOHOL 100 BX 1200	

### Other means of identification

**SDS number:** 088100175565

### Recommended use and restriction on use

**Recommended use:** Skin Antiseptic

**Restrictions on use:** For External Use Only

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

**Company Name:** Becton Dickinson-Diabetes Care  
**Address:** 1 Becton Drive  
07417 Franklin Lakes, NJ USA  
**Telephone:** 1 201 847 6800  
**Fax:**  
**Contact Person:** Regulatory Affairs

**Emergency telephone number:** ChemTrec 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 2

#### Health Hazards

Serious Eye Damage/Eye Irritation Category 2A

Specific Target Organ Toxicity -  
Single Exposure Category 3

### Label Elements

#### Hazard Symbol:





**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

<b>Signal Word:</b>	Danger
<b>Hazard Statement:</b>	H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.
<b>Precautionary Statements</b>	
<b>Prevention:</b>	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P243: Take action to prevent static discharges. P264: Wash thoroughly after handling. P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
<b>Response:</b>	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. P312: Call a POISON CENTER/doctor if you feel unwell. P370+P378: In case of fire: Use carbon dioxide for extinction.
<b>Storage:</b>	P403: Store in a well-ventilated place. P235: Keep cool. P233: Keep container tightly closed.
<b>Disposal:</b>	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification:</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2-Propanol		67-63-0	70%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**General information:** Get medical attention if symptoms occur. For breathing difficulties, oxygen may be necessary.



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

<b>Ingestion:</b>	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions.
<b>Inhalation:</b>	Move into fresh air and keep at rest. Get medical attention if any discomfort continues.
<b>Skin Contact:</b>	No specific precautions due to the small quantities handled.
<b>Eye contact:</b>	Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

**5. Fire-fighting measures**

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Fire causes formation of toxic gases. The product can form flammable mixtures and can burn only when heated above the flash point.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** The product is highly flammable and may be ignited even after short contact with an ignition source.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**6. Accidental release measures**



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment.

**Methods and material for containment and cleaning up:**

Absorb spillage with non-combustible, absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Wash contaminated area with water.

**Environmental Precautions:**

Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

**7. Handling and storage**

**Precautions for safe handling:**

Provide adequate ventilation. Avoid eating, drinking and smoking when using the product.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
2-Propanol	TWA	400 ppm 980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm 1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	400 ppm 980 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	500 ppm 1,225 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	AN ESL	492 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	ST ESL	4,920 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	TWA PEL	400 ppm 980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	STEL	500 ppm 1,225 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

	TWA	200 ppm	US. ACGIH Threshold Limit Values (12 2010)
	STEL	400 ppm	US. ACGIH Threshold Limit Values (12 2010)
	STEL	500 ppm 1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	400 ppm 980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	400 ppm 980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

**Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
2-Propanol (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEI (03 2013)

**Appropriate Engineering Controls** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** No data available.

**Eye/face protection:** Use eye protection.

**Skin Protection**

**Hand Protection:** Chemical resistant gloves

**Other:** No data available.

**Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with adequate ventilation.

**Hygiene measures:** Observe good industrial hygiene practices. When using do not eat, drink or smoke.

**9. Physical and chemical properties**

**Appearance**

**Physical state:** liquid  
**Form:** liquid  
**Color:** Colorless  
**Odor:** Slight odor of alcohol  
**Odor threshold:** No data available.  
**pH:** No data available.  
**Melting point/freezing point:** -29 °C  
**Initial boiling point and boiling range:** 82 °C  
**Flash Point:** 18 °C  
**Evaporation rate:** No data available.  
**Flammability (solid, gas):** No data available.



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

**Upper/lower limit on flammability or explosive limits**

<b>Flammability limit - upper (%):</b>	12.7 %(V)
<b>Flammability limit - lower (%):</b>	2 %(V)
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	31 hPa (20 °C)
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	0.875
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Completely soluble in water
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Other information</b>	
<b>Minimum ignition temperature:</b>	399 °C
<b>VOC:</b>	612.5 g/l

**10. Stability and reactivity**

<b>Reactivity:</b>	Stable
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	Contact with acids. Strong oxidizing agents. Acid aldehydes. Halogenated materials. Aluminum.
<b>Hazardous Decomposition Products:</b>	No data available.

**11. Toxicological information**

**Information on likely routes of exposure**

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

**Eye contact:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Ingestion:** Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

**Inhalation:** Headache. Dizziness.

**Skin Contact:** Prolonged skin contact may cause redness, irritation and dry skin.

**Eye contact:** Causes eye irritation.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** No data available.

**Dermal**

**Product:** No data available.

**Inhalation**

**Product:** No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**

2-Propranol  
NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation  
Experimental result, Key study

**Skin Corrosion/Irritation**

**Product:** Prolonged or repeated skin contact may cause drying, cracking, or irritation.

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Respiratory or Skin Sensitization**

**Product:** Not a skin sensitizer.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**  
No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**  
**Product:** No data available.

**In vivo**  
**Product:** No data available.

**Reproductive toxicity**  
**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**  
**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**  
**Product:** No data available.

**Aspiration Hazard**  
**Product:** No data available.

**Other effects:** None known.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Specified substance(s):**  
2-Propanol LC 50 (Pimephales promelas, 96 h): 8,680 mg/l  
LC 50 (Western mosquitofish (Gambusia affinis), 24 h): > 1,400 mg/l Mortality  
LC 50 (Bluegill (Lepomis macrochirus), 96 h): > 1,400 mg/l Mortality  
LC 50 (Fathead minnow (Pimephales promelas), 48 h): 10,400 mg/l Mortality  
LC 50 (Harlequinfish, red rasbora (Rasbora heteromorpha), 96 h): 4,200 mg/l Mortality

**Aquatic Invertebrates**  
**Product:** No data available.

**Specified substance(s):**





**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

2-Propanol                      EC 100 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Supporting study  
EC 50 (Daphnia magna, 24 h): 9,714 mg/l Experimental result, Supporting study  
LC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Key study  
LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): 900 - 1,950 mg/l Mortality  
LC 50 (Common shrimp, sand shrimp (Crangon crangon), 96 h): 750 - 1,650 mg/l Mortality

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** The product is expected to be slowly biodegradable.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: No data available.

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

2-Propanol                      No data available.

**Other adverse effects:** No data available.

**13. Disposal considerations**



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

**Disposal instructions:** Dispose of waste and residues in accordance with local authority requirements.

**Contaminated Packaging:** No data available.

#### 14. Transport information

**DOTUN Number:** Not regulated.  
**UN Proper Shipping Name:** Not regulated.  
**Transport Hazard Class(es)**  
  **Class:** Not regulated.  
  **Label(s):** Not regulated.  
**Packing Group:** Not regulated.  
**Marine Pollutant:** Not regulated.  
**Limited quantity** Not regulated.  
**Excepted quantity** Not regulated.

**Special precautions for user:** 49CFR 172.102 - Special Provision 47: Small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Packing Group II or III flammable liquid absorbed into a solid material are not subject to this subchapter provided there is no free liquid in the packet or article



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

### IMDG

UN Number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
EmS No.:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine Pollutant:	Not regulated.
Special precautions for user:	Special Provision 216: Sealed packets and articles containing less than 10 mL of a Packing Group II or III flammable liquid absorbed into a solid material are not subject to the provisions of this Code provided there is no free liquid in the packet or article

### IATA

UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine pollutant:	Not regulated.
Special precautions for user:	Special Provision A46: Small inner packaging consisting of sealed packets or articles containing less than 10 mL of a Packing Group II or III flammable liquid absorbed into a solid material are not subject to these Regulations provided there is no free liquid in the packet or article

## 15. Regulatory information

### US Federal Regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
2-Propanol	100 lbs.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Fire Hazard



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

Immediate (Acute) Health Hazards

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
2-Propanol	100 lbs.

**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
2-Propanol	10000 lbs

**SARA 313 (TRI Reporting)**

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
2-Propanol	10000 lbs	25000 lbs.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

**US. New Jersey Worker and Community Right-to-Know Act**

<u>Chemical Identity</u>
2-Propanol

**US. Massachusetts RTK - Substance List**

<u>Chemical Identity</u>
2-Propanol

**US. Pennsylvania RTK - Hazardous Substances**

<u>Chemical Identity</u>
2-Propanol

**US. Rhode Island RTK**

<u>Chemical Identity</u>
2-Propanol



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

**16. Other information, including date of preparation or last revision**

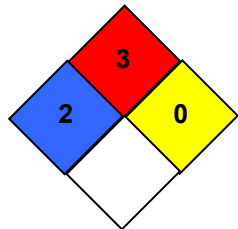
**HMIS Hazard ID**

<b>Health</b>	*	2
<b>Flammability</b>		3
<b>Physical Hazards</b>		0
<b>PERSONAL PROTECTION</b>		<b>B</b>

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**NFPA Hazard ID**



- Flammability
- Health
- Reactivity
- Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 08/09/2018

**Version #:** 2.1

**Revision Information:**

**Further Information:** No data available.



**Becton, Dickinson and  
Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

**Disclaimer:**

Disclaimer:

The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.