



Revision Number: 001.1

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** A344B  
**Product type:** Adhesive

**IDH number:** 917870

**Region:** United States

**Company address:**  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**Contact information:**  
Telephone: 860.571.5100  
Emergency telephone: 860.571.5100  
Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**Physical state:** Liquid  
**Color:** Natural color  
**Odor:** Solvent

**HMIS:**

**HEALTH:** \*2  
**FLAMMABILITY:** 3  
**PHYSICAL HAZARD:** 0  
**Personal Protection:** See MSDS Section 8

**DANGER:** FLAMMABLE LIQUID AND VAPOR.  
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.  
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.  
MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.

**Relevant routes of exposure:** Skin, Inhalation, Eyes

**Potential Health Effects**

**Inhalation:** May cause severe irritation. Can cause pulmonary edema; signs and symptoms can be delayed for several hours. May cause central nervous system effects with nausea, dizziness and headache. Contains formaldehyde, which upon inhalation of vapor caused cancer in laboratory animals. This compound contains a material that may cause sensitization in some individuals, resulting in allergic symptoms of the respiratory tract producing asthma-like conditions (including wheezing, shortness of breath and difficulty breathing).

**Skin contact:** May be harmful or fatal if absorbed through skin. May cause irritation due to defatting of the skin. Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.

**Eye contact:** May cause severe eye irritation. May cause corneal injury.

**Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspirated material can enter the lungs and result in pneumonitis.

**Existing conditions aggravated by exposure:** Eye, skin and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**See Section 11 for additional toxicological information.**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
2-Propanol	67-63-0	60 - 100
Phenol	108-95-2	1 - 5
o-Cresol	95-48-7	1 - 5
Formaldehyde	50-00-0	0.1 - 1

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.
<b>Skin contact:</b>	Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. Get immediate medical attention.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	11.7 °C (53.06 °F)
<b>Autoignition temperature:</b>	Not determined
<b>Flammable/Explosive limits - lower:</b>	2 % (value for solvent)
<b>Flammable/Explosive limits - upper:</b>	12.7 % (value for solvent)
<b>Extinguishing media:</b>	Use NFPA Class B fire extinguishers (Carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.
<b>Special firefighting procedures:</b>	Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.
<b>Unusual fire or explosion hazards:</b>	During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
<b>Hazardous combustion products:</b>	Smoke. Oxides of carbon.

### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Dispose of contaminated material as waste according to item 13.

## 7. HANDLING AND STORAGE

**Handling:**

Keep container closed. Use proper bonding and/or grounding procedures. Do not take internally. Avoid skin and eye contact. Avoid breathing vapors or mists of this product.

**Storage:**

For safe storage, store at or below 46 °C (114.8 °F)

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m3) TWA	None	None
Phenol	5 ppm TWA (SKIN)	5 ppm (19 mg/m3) TWA (SKIN)	None	None
o-Cresol	5 ppm TWA (SKIN)	5 ppm (22 mg/m3) TWA (SKIN)	None	None
Formaldehyde	0.3 ppm Ceiling (Sensitizer.)	29 CFR 1910.1048 0.75 ppm TWA 2 ppm STEL 0.5 ppm OSHA ACT	None	None

**Engineering controls:**

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

**Respiratory protection:**

Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).

**Eye/face protection:**

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

**Skin protection:**

Use impermeable gloves and protective clothing as necessary to prevent skin contact. Wear suitable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Natural color
<b>Odor:</b>	Solvent
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not determined
<b>Vapor pressure:</b>	Not determined
<b>Boiling point/range:</b>	80 °C (176°F)
<b>Melting point/ range:</b>	Not determined
<b>Specific gravity:</b>	0.9
<b>Vapor density:</b>	Heavier than air.
<b>Flash point:</b>	11.7 °C (53.06 °F)
<b>Flammable/Explosive limits - lower:</b>	2 % (value for solvent)
<b>Flammable/Explosive limits - upper:</b>	12.7 % (value for solvent)
<b>Autoignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Slower than diethyl ether.
<b>Solubility in water:</b>	Not determined
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>VOC content:</b>	685 g/l (minus exempt solvents and water).

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Normally stable.
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Smoke. Oxides of carbon.
<b>Incompatible materials:</b>	Strong acids. Strong alkalis.
<b>Conditions to avoid:</b>	Avoid excessive heat (>46°C (>115°F)) and sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
2-Propanol	No	No	No
Phenol	No	No	No
o-Cresol	No	No	No
Formaldehyde	Anticipated carcinogen.	Group 1	Yes

Hazardous components	Health Effects/Target Organs
2-Propanol	Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen
Phenol	Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular
o-Cresol	Blood, Central nervous system, Corrosive, Irritant, Kidney, Liver
Formaldehyde	Allergen, Behavioral, Central nervous system, Irritant, Liver, Metabolic, Mutagen, Reproductive, Respiratory, Some evidence of carcinogenicity

## 12. ECOLOGICAL INFORMATION

<b>Ecological information:</b>	Not available
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## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

<b>Recommended method of disposal:</b>	Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
<b>Hazardous waste number:</b>	D001: Ignitable.

## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation Ground (49 CFR)

<b>Proper shipping name:</b>	Adhesives
<b>Hazard class or division:</b>	3
<b>Identification number:</b>	UN 1133
<b>Packing group:</b>	II
<b>DOT Reportable quantity:</b>	o-Cresol, Formaldehyde

### International Air Transportation (ICAO/IATA)

<b>Proper shipping name:</b>	Adhesives
<b>Hazard class or division:</b>	3
<b>Identification number:</b>	UN 1133
<b>Packing group:</b>	II

**Water Transportation (IMO/IMDG)**

Proper shipping name:	ADHESIVES
Hazard class or division:	3
Identification number:	UN 1133
Packing group:	II

**15. REGULATORY INFORMATION****United States Regulatory Information**

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12(b) Export Notification:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 302 EHS:</b>	Phenol (CAS# 108-95-2). o-Cresol (CAS# 95-48-7). Formaldehyde (CAS# 50-00-0).
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health, Fire
<b>CERCLA/SARA 313:</b>	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). 2-Propanol (CAS# 67-63-0). Phenol (CAS# 108-95-2). o-Cresol (CAS# 95-48-7). Formaldehyde (CAS# 50-00-0).
<b>CERCLA Reportable quantity:</b>	2-Propanol (CAS# 67-63-0) 100 lbs. (45.4 kg) Phenol (CAS# 108-95-2) 1,000 lbs. (454 kg) o-Cresol (CAS# 95-48-7) 100 lbs. (45.4 kg) Formaldehyde (CAS# 50-00-0) 100 lbs. (45.4 kg)
<b>California Proposition 65:</b>	This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information**

<b>CEPA DSL/NDL Status:</b>	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
<b>WHMIS hazard class:</b>	B.2, D.2.A, D.2.B

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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