

# MATERIAL SAFETY DATA SHEET

## CAT HYDROSOLV 174

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME** CAT HYDROSOL

**PART No.** 1U-8806, 1U-6531

**PRODUCT USE** Bactericide

**SUPPLIER** Chemtool Incorporated  
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P.O. Box 538  
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**EMERGENCY TELEPHONE** Rocky Mountain Poison Center Denver, Colorado  
(800) 458-5924 U.S. and Canada.  
(303) 893-1322 Outside U.S.

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
ETHANOL, 2-(HYDROXYMETHYLAMINO)-	34375-28-5	70-100 %

#### COMPOSITION COMMENTS

Chemical ingredients not regulated by OSHA or SARA are treated confidentially.  
Refer to section eight for exposure limits on ingredients.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### ACUTE EFFECTS

#### HEALTH HAZARDS, GENERAL

Risk of serious damage to eyes. Heat in excess of 147 C (297 F) will result in decomposition to formaldehyde and subsequently to ammonia.

##### CHRONIC EFFECTS

#### SENSITIZATION

No known information.

#### CARCINOGENICITY

IARC: Not listed. NTP: Not listed.

#### TERATOGENICITY

No known information.

#### HEALTH WARNINGS

INHALATION. Spray mist can irritate airways and lungs. SKIN CONTACT. Irritating. EYE CONTACT. Irritating. INGESTION. Can cause stomach ache and vomiting.

#### OTHER INFORMATION

**ROUTE OF ENTRY** Inhalation. Ingestion. Skin and/or eye contact.

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## 4. FIRST AID MEASURES

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**INHALATION** Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Get medical attention.

**EYES** Immediately rinse with water. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

**SKIN** Wash skin thoroughly with soap and water. Remove contaminated clothing. Contact physician if irritation persists.

**INGESTION** DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Drink large amounts of water. Never give anything by mouth to an unconscious person. Get medical attention.

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## 5. FIRE FIGHTING MEASURES

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**FLASH POINT (°C)** > 110 Sh CC (Setaflash closed cup).

**FLAMMABILITY LIMIT - LOWER(%)** N/D

**FLAMMABILITY LIMIT - UPPER(%)** N/D

**EXTINGUISHING MEDIA** Fire can be extinguished using: Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Water spray, fog or mist.

**SPECIAL FIRE FIGHTING PROCEDURES** Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures.

**UNUSUAL FIRE & EXPLOSION HAZARDS** Pressure will increase in over heated, closed containers. Excessive heat will result in decomposition to ammonia and formaldehyde.

**HAZARDOUS COMBUSTION PRODUCTS** Fire or high temperatures create: Toxic gases/vapors/fumes. Ammonia and formaldehyde. Oxides of: Carbon.

**PROTECTIVE MEASURES IN CASE OF FIRE** Self-contained breathing equipment and chemical resistant clothing recommended.

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## 6. ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS** Minimize skin contact.

**PRECAUTIONS TO PROTECT THE ENVIRONMENT** Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

**SPILL CLEAN-UP PROCEDURES** Contain spill. Neutralize and absorb small amounts. Collect and return large

amounts to shipping container. Rinse spill area with water. While cleaning up spills also refer to the section Protective measures.

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## 7. HANDLING AND STORAGE

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### HANDLING PRECAUTIONS

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Product contains amines, do not mix with nitrites. Do not store or mix with strong oxidizers. Eye wash station should be available at the work place.

### STORAGE PRECAUTIONS

Store separated from: Acids. Oxidizing materials. Do not freeze. Store at temperature below 122°F. Do not store in aluminum, brass, or copper containers.

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## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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COMPONENT	STD	TWA	STEL	TWA	STEL
ETHANOL, 2-(HYDROXYMETHYLAMINO)-	OSHA	N/E	N/E		
	ACGIH	N/E	N/E		

### PROTECTIVE EQUIPMENT



### ENGINEERING CONTROLS

Use engineering controls to reduce air contamination to permissible exposure level.

### VENTILATION

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

### RESPIRATORS

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

### PROTECTIVE GLOVES

Chemical resistant gloves required for prolonged or repeated contact. Protective gloves must be used if there is a risk of direct contact or splash. Use protective glove made of: Neoprene, nitrile, polyethylene or PVC.

### EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

### PROTECTIVE CLOTHING

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

### HYGIENIC WORK PRACTICES

Wash at the end of each work shift and before eating, smoking and using the toilet.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### APPEARANCE/PHYSICAL STATE

Clear. Liquid.

<b>COLOR</b>	Amber.		
<b>ODOR</b>	Amine.		
<b>SOLUBILITY DESCRIPTION</b>	Soluble in water.		
<b>BOILING POINT (°C, range)</b>	110	<b>Pressure</b>	760mmHg
<b>DENSITY</b>	1.15	<b>Temperature (°C)</b>	16
<b>VAPOR DENSITY (air=1)</b>	> 1		
<b>VAPOR PRESSURE</b>	7.5 mmHg	<b>Temperature (°C)</b>	20
<b>EVAPORATION RATE</b>	> 1	<b>Reference</b>	BuAc=1
<b>pH-VALUE, CONC. SOLUTION</b>	11.4		

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## 10. STABILITY AND REACTIVITY

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<b>STABILITY</b>	Normally stable.
<b>CONDITIONS TO AVOID</b>	Avoid contact with acids and oxidizing substances. Avoid heat, flames and other sources of ignition.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur.
<b>POLYMERIZATION DESCRIPTION</b>	Not applicable
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Ammonia and formaldehyde. Oxides of: Carbon.

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## 11. TOXICOLOGICAL INFORMATION

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<b>TOXIC DOSE - LD 50</b>	1620 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 2000 mg/kg (skn rat)
<b>TOXIC CONC. - LC 50</b>	620 mg/l/4h (inh-rat)

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## 12. ECOLOGICAL INFORMATION

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<b>LC 50, 96 HRS, FISH, mg/l</b>	> 100
<b>EC 50, 48 HRS, DAPHNIA, mg/l</b>	27.9
<b>ECOLOGICAL INFORMATION</b>	Dangerous for the environment if discharged into watercourses. This product is a pesticide and may cause adverse environmental impact if discharged into watercourses.
<b>BIOACCUMULATION</b>	Not determined.
<b>BIODEGRADABILITY</b>	Not determined.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS** Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

### 14. TRANSPORT INFORMATION

**DOT HAZARD CLASS** Not regulated.

**TDGR CLASS** Not regulated.

**SEA TRANSPORT NOTES** Not regulated.

**AIR TRANSPORT NOTES** Not regulated.

### 15. REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
ETHANOL, 2-(HYDROXYMETHYLAMINO)-		N/A	N/A

#### CLEAN AIR ACT

**SARA(311/312) HAZARD CATEGORIES** Acute

#### US STATE REGULATIONS

**REGULATORY STATUS (Canada)** Not a controlled product.

#### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMIS

COMPONENT	INVENTORIES							
	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
ETHANOL, 2-(HYDROXYMETHYLAMINO)-	DSL	Yes	NAV	NAV	NAV	NAV	NAV	NAV

### 16. OTHER INFORMATION

**HEALTH** Extremely hazardous, serious injury(3)

**FLAMMABILITY** Burns only if pre-heated (1).

**REACTIVITY**

Unstable if heated (1).

James P. McBriarty

**DATE**

October 9, 2008

**DISCLAIMER**

While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.