



# MATERIAL SAFETY DATA SHEET

## CAT GENERAL PURPOSE ADHESIVE CLEANER

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME** CAT GENERAL PURPOSE ADHESIVE CLEANER

**PART No.** Chemtool, 847011, Caterpillar, 9U-6917

**SUPPLIER** Chemtool Incorporated  
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**EMERGENCY TELEPHONE** Rocky Mountain Poison Center  
Denver, Colorado  
In USA and Canada - (800) 458-5924  
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### 2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
*BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	1330-20-7	30-60 %
*NAPHTHA, PETROLEUM, HYDROTREATED HEAVY	64742-48-9	30-60 %
*BENZENE, ETHYL-	100-41-4	5-15 %
*PENTANE, 2,2,4-TRIMETHYL-	540-84-1	<2.5 %
*BENZENE, METHYL- (COMMON NAME: TOLUENE)	108-88-3	<0.3 %
*BENZENE	71-43-2	<0.02 %

\* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

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

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** Highly flammable. Harmful by inhalation and in contact with skin. Irritating to eyes, respiratory system and skin. Possible risk of irreversible effects. Harmful: may cause lung damage if swallowed.

**SENSITIZATION** No known information.

<b>CARCINOGENICITY</b>	OSHA: Not regulated. NTP: Not listed. See Section 11 for carcinogenicity data of ingredients.
<b>TERATOGENICITY</b>	No known information.
<b>HEALTH WARNINGS</b>	INHALATION. The solvent vapors can be harmful and cause headache, nausea and intoxication. SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. May cause slight eye irritation. May cause very slight transient (temporary) corneal injury. INGESTION. May cause pain or discomfort in the abdomen, pain in the lumbar region, nausea, vomiting, diarrhea, dizziness, drowsiness and loss of consciousness. Kidney or liver injury may also occur. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
<b>ROUTE OF ENTRY</b>	Skin and/or eye contact. Ingestion. Inhalation. Skin absorption.

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#### 4. FIRST AID MEASURES

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<b>INHALATION</b>	Remove victim immediately from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration.
<b>EYES</b>	Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.
<b>SKIN</b>	Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>INGESTION</b>	DO NOT induce vomiting. Get medical attention immediately.

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#### 5. FIRE FIGHTING MEASURES

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<b>FLASH POINT (°C)</b>	11 (52 F) TCC (Tag closed cup).
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	0.9
<b>FLAMMABILITY LIMIT - UPPER(%)</b>	6.0
<b>*FLAMMABILITY CLASS</b>	7.1 Flammable Liquid IB - Flash Point less than 73°F; Boiling Point equal to or greater than 100°F.
<b>EXTINGUISHING MEDIA</b>	Use: Dry chemicals, sand, dolomite etc. Foam. Carbon dioxide (CO2).
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures. Caution should be exercised when using water or foam as frothing may occur. Vapors from this product may be moved by air currents and ignited by ignition sources.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	Pressure will increase in over heated, closed containers.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Acrid smoke/fumes. Oxides of: Carbon.
<b>PROTECTIVE MEASURES IN CASE OF FIRE</b>	Self-contained breathing equipment and chemical resistant clothing recommended.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS</b>	Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines. Remove sources of ignition.
<b>PRECAUTIONS TO PROTECT THE ENVIRONMENT</b>	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.
<b>SPILL CLEAN-UP PROCEDURES</b>	Contain spill. Absorb small amounts. Collect and return large amounts to shipping container. Rinse area with water.

## 7. HANDLING AND STORAGE

<b>HANDLING PRECAUTIONS</b>	Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers.
<b>STORAGE PRECAUTIONS</b>	Keep away from heat, sparks and open flame. Store separate from strong acids and oxidizers.
<b>STORAGE CRITERIA</b>	Flammable liquid storage.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	OSHA	100 ppm		434 mg/m3	
	ACGIH	100 ppm **A4	150 ppm	434 mg/m3	651 mg/m3
NAPHTHA, PETROLEUM, HYDROTREATED HEAVY	OSHA	100 ppm			
	ACGIH	100 ppm			
BENZENE, ETHYL-	OSHA	100 ppm		435 mg/m3	
	ACGIH	100 ppm **A3	125 ppm	434 mg/m3	543 mg/m3
PENTANE, 2,2,4-TRIMETHYL-	OSHA	N/E	N/E		
	ACGIH	300 ppm	375 ppm		
BENZENE, METHYL- (COMMON NAME: TOLUENE)	OSHA	200 ppm	300 ppm (ceil)		
	ACGIH	50 ppm (skin)	**A4		
BENZENE	NIOSH	100 ppm	150 ppm		
	OSHA	1 ppm **Ca	5 ppm	3 mg/m3	15 mg/m3
	ACGIH	0.5 ppm (skin)**A1	2.5 ppm	1.6 mg/m3	8 mg/m3
	NIOSH	0.1 ppm **Ca	1 ppm		

### \*INGREDIENT COMMENTS

\*\*ACGIH A1: Confirmed Human Carcinogen.  
 \*\*ACGIH A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans.  
 \*\*ACGIH A4: Not Classifiable as a Human Carcinogen.  
 \*\*NIOSH Ca: Potential Occupational Carcinogen.  
 \*\*OSHA Ca: Carcinogen.



**PROTECTIVE EQUIPMENT**

<b>ENGINEERING CONTROLS</b>	Use engineering controls to reduce air contamination to permissible exposure level.
<b>VENTILATION</b>	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
<b>RESPIRATORS</b>	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
<b>PROTECTIVE GLOVES</b>	For prolonged or repeated skin contact use suitable protective gloves.
<b>EYE PROTECTION</b>	Wear splash-proof eye goggles to prevent any possibility of eye contact.
<b>PROTECTIVE CLOTHING</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>HYGIENIC WORK PRACTICES</b>	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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<b>APPEARANCE/PHYSICAL STATE</b>	Clear. Liquid.		
<b>COLOR</b>	Colorless.		
<b>ODOR</b>	Aromatic. Solvent.		
<b>SOLUBILITY DESCRIPTION</b>	Insoluble in water.		
<b>BOILING POINT (°C, range)</b>	118 (245 F)	<b>Pressure</b>	760mmHg
<b>DENSITY</b>	0.82 g/mL	<b>Temperature (°C)</b>	15.6 (60°F)
<b>VAPOR DENSITY (air=1)</b>	> 3.0		
<b>VAPOR PRESSURE</b>	15 mmHg	<b>Temperature (°C)</b>	38 (100°F)
<b>EVAPORATION RATE</b>	7.1	<b>Reference</b>	EtEt=1
<b>*VOLATILE BY VOL (%)</b>	100		
<b>pH-VALUE, CONC. SOLUTION</b>	N/A		
<b>VISCOSITY (interval)</b>	3 cP	<b>Temperature (°C)</b>	
<b>VOLATILE ORGANIC CONTENT</b>	816 g/litre		

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**10. STABILITY AND REACTIVITY**

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

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## 11. TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION      No experimental toxicological data on the preparation as such is available.

COMPONENT      **BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)**

TOXICOLOGICAL DATA      Mutagenicity. WHMIS: D2A  
Irritating effects. Skin. WHMIS: D2B  
TOXIC DOSE - LD 50      4300 mg/kg (oral rat)  
TOXIC DOSE - LD 50 SKIN      > 1700 mg/kg (skn rbt)  
TOXIC CONC. - LC 50      5000 ppm/4h (inh-rat)  
CARCINOGENICITY      OSHA: Not regulated. NTP: Not listed.  
IARC-3 designation: Not classifiable as to Carcinogenicity to Humans. EPA-D designation: Not classifiable as to human carcinogenicity.

COMPONENT      **NAPHTHA, PETROLEUM, HYDROTREATED HEAVY**

TOXIC DOSE - LD 50      N/A.  
TOXIC CONC. - LC 50      N/A.

COMPONENT      **BENZENE, ETHYL-**

TOXICOLOGICAL DATA      Carcinogenicity. WHMIS: D2A  
Irritating effects. Skin. WHMIS: D2B  
TOXIC DOSE - LD 50      3500 mg/kg (oral rat)  
CARCINOGENICITY      OSHA: Not regulated. NTP: Not listed.  
IARC-2B designation: Possibly carcinogenic to humans. EPA-D designation: Not classifiable as to human carcinogenicity.

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## 12. ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION      There is no ecological data on the product itself.

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## 13. DISPOSAL CONSIDERATIONS

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

\*WASTE CLASSIFICATION      D001 Ignitable  
D018 due to TCLP benzene.

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**14. TRANSPORT INFORMATION**

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DOT PROPER SHIPPING NAME      Flammable liquid, n.o.s. (Petroleum distillates/Xylene)  
DOT HAZARD CLASS                      3  
IDENTIFICATION No.                      UN1993  
PACKING GROUP                              II  
LABEL FOR TRANSPORT



U.S. DOT HAZARD LABEL              Flammable Liquid  
TDGR CLASS                              3  
UN No. SEA                              UN1993  
IMDG CLASS                              3  
IMDG PACK GR.                              II  
SEA TRANSPORT NOTES              Flammable liquid, n.o.s. (Petroleum distillates/Xylenes)  
UN No., AIR                              UN1993  
ICAO CLASS                              3  
AIR PACK GR.                              II  
AIR TRANSPORT NOTES              Flammable liquid, n.o.s. (Petroleum distillates/Xylenes)

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**15. REGULATORY INFORMATION**

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US FEDERAL REGULATIONS: COMPONENT	SARA 302	CERCLA	SARA 313
BENZENE	No	10 lbs	Yes
BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	No	1 000 lbs	Yes
NAPHTHA, PETROLEUM, HYDROTREATED HEAVY	No	No	No
BENZENE, ETHYL-	No	100 lbs	Yes
PENTANE, 2,2,4-TRIMETHYL-	No	1 000 lbs	No
BENZENE, METHYL- (COMMON NAME: TOLUENE)	No	1 000 lbs	Yes

See Section 2 for Additional Information

SARA HAZARD CATEGORIES              Acute Chronic Fire

US STATE REGULATIONS: BY COMPONENT	CA	MA	FL	MN	NJ	PA	RI
BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	No	Yes			Yes	EH	Yes
BENZENE, ETHYL-	C	Yes			Yes	EH	Yes
BENZENE, METHYL- (COMMON NAME: TOLUENE)	R	Yes			Yes	EH	Yes
BENZENE	C,R	Yes			Yes	ESHS	Yes

**\*STATE REGULATORY STATUS**

PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required:  
 Ethylbenzene, CAS # 100-41-4  
 Toluene, CAS # 108-88-3  
 Benzene, CAS# 71-43-2

**WORKPLACE HAZARDOUS  
 MATERIALS INFORMATION SYSTEM -  
 WHMIS**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**LABEL(S) FOR SUPPLY**
**CONTROLLED PRODUCT  
 CLASSIFICATION**

B2 - Flammable Liquids  
 D2A - Chronic Very Toxic Material  
 D2B - Chronic Toxic Material

**Risk phrases**

R-11 Highly flammable.  
 R-20/21 Harmful by inhalation and in contact with skin.  
 R-38 Irritating to skin.  
 R-40 Limited evidence of a carcinogenic effect.  
 R-65 Harmful: may cause lung damage if swallowed.

INVENTORIES: COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
BENZENES, DIMETHYL- (COMMON NAME: XYLENES - MIXED ISOMERS)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
NAPHTHA, PETROLEUM, HYDROTREATED HEAVY	DSL	Yes	EINECS	No	No	No	No	No
BENZENE, ETHYL-	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
PENTANE, 2,2,4-TRIMETHYL-	DSL	Yes	EINECS	No	No	No	No	No
BENZENE, METHYL- (COMMON NAME: TOLUENE)	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
BENZENE	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

**16. OTHER INFORMATION**



<b>NFPA-HMIS: HEALTH</b>	Temporary incapacitation, injury (2) - HMIS/NFPA
<b>NFPA-HMIS: FLAMMABILITY</b>	Ignites easily (3) - HMIS/NFPA
<b>NFPA-HMIS: REACTIVITY</b>	Normally Stable (0) - HMIS/NFPA
<b>HMIS PERSONAL PROTECTION INDEX</b>	B - Safety Eyewear and Gloves
<b>*REVISION COMMENTS</b>	* Information revised since previous MSDS version.
<b>PREPARED BY</b>	John Dingess James W. Hermann
<b>*Replacement MSDS of</b>	2005-07-25
<b>*DATE</b>	2008-10-02
<b>PRINTING DATE:</b>	2008-10-02
<b>DISCLAIMER</b>	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.