

MATERIAL SAFETY DATA SHEETWarren Unilube, Inc.

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PRODUCT IDENTIFICATION

Trade Name: AUTOGUARD NON-CHLORINATED BRAKE CLEANER Date Revised: July 14, 2006

Synonyms/product Code:

Chemical Name: Automotive Chemical

Family Description:

DOT Hazard Class: Consumer Commodity ORM-D

NFPA Codes: Health=2, Flammability=3, Reactivity=0

COMPOSITIONOccupational Exposure Limits\*

<u>Product</u>	<u>CAS Number</u>	<u>Wt%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other</u>	<u>Units</u>
Non-Chlorinated Brake Cleaner ***	Mixture	100	N.A.	N.A.		
<u>Ingredient(s):</u>						
Toluene	108-88-3	<20	300	100	STEL 150	ppm
Methyl Alcohol	67-56-1	<40	250	200	STEL 250	ppm
Hexane	110-54-3	<5	1000	100		ppm
Acetone	67-64-1	<50	500	500		ppm

\* = 8-Hr. TWA unless otherwise specified.

\*\* = As mineral oil Mist

\*\*\* = All ingredients in this product are listed in the T.S.C.A. Inventory.

N.A. = Not Available

STEL = Short Term Exposure Limit; 15 minutes.

**PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point 760 mmHg:	147 F	Melting Point:
Vapor Pressure mmHg @ 68F:	97.68	Vapor Density (air=1): >1
Solubility in H <sub>2</sub> O %:	Nil.	pH: N.A.
Specific Gravity (H <sub>2</sub> O):	0.805	Evaporation Rate (ethyl ether =1): <1
% Volatile by Volume:	>99	Odor: Slight hydrocarbon odor
Viscosity (method, temp):	N.A.	Appearance: Clear Liquid

N.A. = Not Available

**FIRE AND EXPLOSION DATA**

Flash Point:	(TCC) 20F	
Flammable Limits in Air % by Vol.	Lower: 1.2	Upper: N.A.
Autoignition Temperature:		
Extinguishing Media:	Dry chemical, foam, or carbon dioxide.	
Special Fire Fighting Procedure:	Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool. Firefighters should wear self-contained breathing apparatus.	
Unusual Fire or Explosion Hazard:	Material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.	

**REACTIVITY DATA**

Stability:	Stable
Hazardous Polymerization:	Will not occur.
Conditions to Avoid/Incompatibility:	Strong oxidizing agents, heat, spark, flame and build-up of static electricity.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, and various hydrocarbons.

**HEALTH HAZARD DATA**

This product has not been tested as a whole to determine its specific health hazards. The information provided in this section is based on health hazard information on the product components.

Carcinogenicity: NTP: No	IARC Monographs: No	OSHA Regulated: No
Occupational Exposure Limits:	See <u>COMPOSITION</u> section.	

**Effects of Overexposure:****Acute:**

Eyes:	May cause severe irritation, redness, tearing, blurred vision.
Skin:	Prolonged or repeated contact may cause moderate irritation, defatting, dermatitis.
Inhalation:	Excessive inhalation of vapors may cause nasal and respiratory irritation, central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness and even asphyxiation.

**Ingestion:** May cause gastrointestinal irritation nausea, vomiting, and diarrhea. Aspiration of material into the lungs may cause chemical pneumonia which may be fatal.

**Chronic:**

Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: Liver abnormalities, kidney damage, anemia, lung damage, eye damage, brain damage, nervous system damage, spleen damage.

Overexposure to this material (or its Components) has been suggested as a cause of the following effects in humans: Liver abnormalities, eye damage.

**EMERGENCY FIRST AID PROCEDURES**

**Eye Contact:** Flush thoroughly with water for at least 15 minutes occasionally, lifting upper and lower lids. Get medical attention.

**Skin Contact:** Remove contaminated clothing. Wash affected areas with soap and water. If irritation occurs, get medical help.

**Inhalation:** Remove to fresh air. Apply artificial respiration if not breathing. Get medical attention.

**Ingestion:** Call a physician or poison control center immediately for instruction; this material contains both methanol and petroleum distillates. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

**Note to Physicians:**

This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis.

**SPECIAL PROTECTION INFORMATION**

**Eye Protection:** Remove contact lenses and wear chemical safety goggles where contact with liquid or mist may occur.

**Skin Protection:** Wear impervious gloves when contact with skin may occur. Use face shields where splashing may occur.

**Inhalation:** Use approved respiratory protective equipment to keep exposure level below approved limits. occupational exposure levels.

**Ventilation:** Provide adequate ventilation to keep mist or vapors below occupational exposure levels.

**SPILL OR LEAK AND DISPOSAL PROCEDURES**

**Spill Procedures:** Remove sources of heat or ignition including internal combustion engines and power tools. Remove spill with floor absorbent. Use approved respirator where occupational exposure limits may be exceeded.

**Waste Disposal:** Dispose through a licensed waste disposal company. Follow federal, state and local regulation.

SPECIAL PRECAUTIONS AND COMMENTS

**Storage Requirements:** Store in tightly closed containers in an dry cool place, away from sources of heat, ignition or strong oxidizers. Ground and bond all transfer and storage equipment and equip with self closing valves, pressure vacuum bungs and flame arrestors.

SARA TITLE III INFORMATION

<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>
X	X	X	X	

SARA Hazardous Substances

<u>Ingredient</u>	<u>CAS NO.</u>	<u>%, WT</u>	<u>Sec 313</u>	<u>Sec 302</u>	<u>RQ, lb</u>	<u>TPQ, lb</u>
Toluene	108-88-3	37	X			
Methyl Alcohol	67-56-1	27	X			

Key: Sec 313 = Toxic Chemicals, Section 313  
Sec 302 = Extremely Hazardous Substances (EHS)  
RQ = Reportable Quantity of EHS  
TPQ = Threshold Planning Quantity of EHS

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