ASHBURN
Cut - Clean - Protect

MATERIAL SAFETY DATA SHEET
APEX 3500 SYNTHETIC COOLANT

I. PRODUCT AND MANUFACTURER INFORMATION	
Product name	**APEX 3500, SYNTHETIC COOLANT**
Chemical name	CHEMICAL CUTTING FLUID
Synonyms	
CAS number	N/A
Manufacturer	Ashburn Chemical Technologies 2911 Rusk Houston, TX 77003
Emergency phone number	713-425-3000
MSDS prepared by	
Date of last revision	1/3/03

II. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% Optional	OSHA PEL	ACGIH TLV	CHEMICAL AND/OR COMMON NAME(S)
TRIETHANOLAMINE	(CAS 102-71-6)			NE	
POLYALKYLENE GLYCOL	(CAS TRADE SECRET)			NE	
CARBOXYLIC ACID SALT	(CAS TRADE SECRET)			5MG/M3	
WATER AND OTHER NONHAZARDOUS INGREDIENTS					

(All other products are not considered to be subject to Section 313 provisions of SARA Title III)

III. PHYSICAL AND CHEMICAL CHARACTERISTICS	
Boiling point @ 760 mm Hg	212F
Vapor pressure at 20 °C	<1
Vapor density (air = 1)	<1
Solubility in water	Complete
Appearance and odor	Blue Transparent
Specific gravity (H_2O = 1.0)	1.06
pH of solution @ 10:1	9.15
Melting point	N/A
Evaporation rate (butyl acetate = 1)	<1

IV. FIRE AND EXPLOSION HAZARD DATA			
Combustible/Not combustible	Not Combustible		
Flammable/Not flammable	Not Flammable		
Pyrophoric/Not pyrophoric	Not Pyrophoric		
Explosive/Not explosive	Not Explosive		
Flash point (test method)	None		
Flammable limits (in Air % by volume)	N/A	N/A	N/A
Extinguishing media	Foam or Dry Chemical		
Special fire-fighting procedures or equipment	Same as for Petroleum Products		
Unusual fire and explosion hazards	None		

V. REACTIVITY DATA	
Material is stable/unstable	Stable
Conditions to avoid	Avoid contact with strong acids or bases
Incompatibility (materials to avoid)	Avoid contact with strong acids or bases
Hazardous decomposition or by-products	None Known
Hazardous polymerization will/will not occur	Will not occur

VI. HEALTH HAZARD DATA	
Threshold limit value	Not Established
Primary route(s) of entry	Skin
Known Hazards Under 29 CFR 1910.1200	
Mutagenic (genetic defects)	None
Reproductive	None
Systemic	None
Teratogenic (birth defects)	None
Carcinogen listed in:	
NTP (National Toxicology Program)	NO
IARC Monographs	NO
OSHA	NO
Signs and symptoms of exposure	
Inhalation	No irritation under normal conditions.
Skin contact	No irritation under normal conditions.
Eye contact	Will cause irritation
Ingestion	May cause nausea
Emergency first aid procedures	
Inhalation	Remove to Fresh Air
Skin contact	Wash with soap and water
Eye contact	Flush with water for 15 minutes, seek medical attention
Ingestion	If swallowed, do not induce vomiting. Dilute by drinking water. Immediately contact physician and obtain treatment.
Medical conditions generally aggravated by exposure	None
Notes to physician	

VII. PRECAUTIONS FOR SAFE HANDLING AND USE		
Steps to take if released or spilled	Flush with water and/or use absorbent material and mop-up	
Waste disposal method	Dispose of in manner consistent with Federal, State and Local regulations	
Precautions for handling and storing	Launder contaminated clothes before reuse.	
Other precautions	Use as directed	
Hazard ratings		
Health	1	
Flammability	0	
Reactivity	0	
Personal protection		

VIII. CONTROL MEASURES	
Protective gloves (type and material)	Not normally required under normal working conditions. In situations of overexposure, use chemical resistant gloves.
Eye protection	If potential for eye contact exists, wear Safety Glasses/Goggles
Ventilation and conditions	

Local	Yes
Mechanical	Recommended
Other	Not normally required
Special	None
Work/hygienic practices	Wash hands at end of workday.

IX. ADDITIONAL REGULATORY INFORMATION	
SARA hazard category (Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III)	NONE
Toxic chemical(s) subject to the supplier notification requirements of section 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA) and the requirements of 40 CFR part 372	NONE
Ingredient(s) regulated under the Clean Air Act Section 112 hazardous air pollutants and subject to all reporting requirements of CERCLA (Superfund)	NONE

NA – not applicable NR – not reported ND – not determined NE – not established UN – unknown

The information presented in this MSDS has been compiled from sources deemed reliable. This MSDS is presented in good faith and believed to be accurate as of the effective date shown above. No warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the responsibility of the buyer to insure compliance with federal, state, provincial and local laws and regulations.