



# ADCO

## MATERIAL SAFETY DATA SHEET

### TITAN 604

<b>Section One</b>
--------------------

### Product Information

Manufacturer's Name: ADCO Products, Inc.	Business Phone No.: 1-517-764-0334
	Emergency Phone No.: 1-800-424-9300 (CHEMTREC)
Address: 4401 Page Ave., P.O. Box 457 Michigan Center, MI 49254	
Product Name: <b>TITAN 604 Glass Cleaner</b>	
Product Description: Water-Based Glass Cleaner	
Chemical Family: Cleaning Compound	
MSDS Preparer: James R. Buckhannon	Date Prepared: 10/14/02
Revision: 5	

<b>Section Two</b>
--------------------

### Composition Information

<u>Common Name and Chemical Name</u>	<u>Weight %</u>	<u>CAS Number</u>
<i>Exposure limits</i>		
Water	85.0-95.0	7732-18-5
OSHA: TWA		STEL-
ACGIH: TWA		STEL-
2-Butoxyethanol	1.0-5.0	111-76-2
OSHA: TWA 20ppm		STEL-(Skin)
ACGIH: TWA 20ppm		STEL-(Skin)
Butane	1.0-5.0	106-97-8
OSHA: TWA 800ppm		STEL-
ACGIH: TWA 800ppm		STEL-
Propane	1.0-5.0	74-98-6
OSHA: TWA 1000ppm		STEL-
ACGIH: TWA 2500ppm		STEL-

**Section Three**

Routes of Exposure:

Exposure may be by Inhalation and/or skin or eye contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

Effects of Overexposure:

Irritation of eyes, skin and upper respiratory system. In a confined area vapors in high concentration may cause headache, nausea or dizziness.

Signs and Symptoms of Overexposure:

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Medical Conditions Aggravated By Exposure:

None generally recognized.

Cancer Information:

For complete discussions of toxicology data refer to Section 11.

**Section Four**

Inhalation:

If affected, remove from exposure. Restore breathing. Keep warm and quiet.

Eyes:

Flush eyes with large amounts of water for 15 minutes. Get medical attention.

Ingestion:

Do not induce vomiting. Get medical attention immediately.

Skin:

Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

**Section Five**

Flash Point:

>200°F

Method:

PMCC

Lower Flammability Limit:

N. A.

Upper Flammability Limit:

N. A.

Extinguishing Media

Carbon Dioxide, Dry Chemical or Alcohol Foam.

Unusual Fire and Explosion Hazards:

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible build-up and possible autoignition or explosion when exposed to extreme heat.

**Section Six**

Steps To Be Taken In Case Material is Released or Spilled:

**Section Seven**

Storage Category

Handling and Storage Precautions:

**Section Eight**

Precautions To Be Taken In Use:

Ventilation:

Respiratory Protection:

Protective Gloves:

Eye Protection:

**Accidental Release Measures**

Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

**Handling and Storage**

NFPA 30B Level 1 Aerosol

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of reach of children.

**Exposure Controls/Personal Protection**

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH for protection against materials in Section 2.

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

Wear safety spectacles with unperforated sideshields.

### Section Ten

Stability:	Stable.
Conditions To Avoid:	None known.
Incompatibility:	None known.
Hazardous Decomposition Products:	By fire: Carbon Dioxide, Carbon Monoxide
Hazardous Polymerization:	Will not occur.

### Section Eleven

Chronic Health Hazards:	No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.
-------------------------	--

#### Toxicology Data:

<u>CAS No.</u>	<u>Ingredient Name</u>				
74-98-6	Propane	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
111-76-2	2-Butoxyethanol	LC50	RAT	4HR	Not Available
		LD50	RAT		470 mg/kg

### Section Twelve

Ecotoxicological Information:	No data available.
-------------------------------	--------------------

### Section Thirteen

Waste Disposal Method:	Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.
------------------------	---

### Section Fourteen

Transportation Information:	No data available.
-----------------------------	--------------------

### Stability and Reactivity

### Toxicological Information

### Ecological Information

### Disposal Considerations

### Transport Information

**Section Fifteen****Regulatory Information**

SARA 313 (40 CFR 372.65C) Supplier Notification:

<u>CAS No.</u>	<u>Chemical/Compound</u>	<u>% by Wt</u>	<u>% Element</u>
	Glycol Ethers	5	

California Proposition 65 Warning:

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA Certification:

All chemicals in this product are listed , or are exempt from listing, on the TSCA Inventory.

**Section Sixteen****Other Information**

Other Information:

No additional information.

THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION NOR DO WE OFFER WARRANTY AGAINST PATENT INFRINGEMENT.

---



---