



Section One

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: TITAN 604 Glass Cleaner

Product Description: Water Based Glass Primer

Chemical Family: Cleaning Compound

MSDS Preparer: James R. Buckhannon Date Prepared: 08/16/99

Revision: 3

Replaces Date: 04/02/98

Section Two

Molecular Composition

Common Name		nemical Name	Weight %	CAS Number	
Water				50.0-60.0	7732-18-5
OSHA:	TWA		STEL-		
ACGIH:	TWA		STEL-		
Ethyl Alcohol (Ethanol)			5.0-20.0	64-17-5
OSHA:	TWA	1000ppm	STEL-		
ACGIH:	TWA	1000ppm	STEL-		
Ethylene Glycol Monobutyl Ether				10.0-15.0	111-76-2
OSHA:	TWA	25ppm	STEL-(Skin)		
ACGIH:	TWA	25ррт	STEL-(Skin)		
Isobutane				1.0-5.0	75-28-5
OSHA:	TWA		STEL-		
ACGIH:	TWA	800ppm	STEL-		
Propane				1.0-3.0	74-98-6
OSHA:	TWA	1000ppm	STEL-		
ACGIH:	TWA		STEL-		

Section Three

Hazards Information

Emergency Overview

Eyes:

Ingestion:

Clear liquid. If inhaled can cause headache, dizziness, nausea, drowsiness, stupor, irritation to respiratory system, possible unconsciousness and asphyxiation. Leave area to breathe fresh air. Avoid further exposure. If symptoms persist, get medical attention immediately.

Potential health effect / Rte of Entry

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Inhalation:	Can cause headache, dizziness, nausea, drowsiness, stupor, irritation to respiratory system, possible unconsciousness and asphyxiation.
Eyes:	Can cause irritation, burns, corneal injury.
Ingestion:	Can cause gastrointestinal irritation, Vomiting and diarrhea. Aspiration into the lungs can cause chemical pneumonitis, which can be fatal.
Skin:	Can cause irritation, dermatitis. May be slightly toxic by skin absorption.
Acute Health Effects:	Chronic diseases or disorders of the respiratory system or the skin.
Chronic Health Effects:	Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Ethyl alcohol (denatured) caused kidney, liver and lung abnormalities, damage to eyes, cardiovascular and nervous systems in experimental animals. Ethyl alcohol may cause teratogenic effects ingested. 2-Butoxyethanol may cause corneal injury and blood abnormalities and may be absorbed through skin with toxic effects. Propellants in product, such as propane, and isobutane, are asphyxiants and can be anesthetic at high concentrations.
Section Four	First Aid Measures
Inhalation:	Leave area to breathe fresh air. If breathing is difficult,

immediately.

administer oxygen. If breathing has stopped, give artificial

upper and lower lids occasionally. Get medical attention

Do not induce vomiting. Get medical attention immediately.

Flush immediately with running water for 15 minutes, lifting the

respiration. Get medical attention immediately.

Section Four

Skin:

Notes to Physician

Section Five

Flash Point: Method: Lower Flammability limit:

Upper Flammability limit:
Upper Flammability Limit:
Auto ignition Temperature:
Extinguishing Media

Fire and Explosion Hazards:

Special Fire Fighting Procedure:

Fire Fighting Equipment:

Other precautions:

Section Six

Release Response Overview:

Section Seven

Handling and Storage Precautions:

(continued)

Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately

N. A.

Fire Fighting Measures

<-20 °F TCC N. A. N. A.

Not Established

Carbon dioxide, dry chemical or foam.

Contents under pressure. Keep away from heat and flame. Avoid freezing. To avoid violent reaction, do not puncture or incinerate container.

During a fire, personnel at the scene are to prevent exposure to fumes using accepted fire fighting techniques.

N. A.

N. A.

Accidental Release Measures

Remove sources of ignition immediately. Ventilate to reduce the airborne contaminant concentration below the exposure limit in section II of the MSDS. Absorb spill is sand or other suitable material. Transfer to appropriate container for disposal.

Handling and Storage

Keep container closed when not in use. Vapor may migrate to sources of ignition. Do not smoke, weld, generate sparks, or use open flame near container. Precautions also apply to emptied containers.

Section Eight

Exposure Controls/Personal Protection

Respiratory: Wear appropriate, properly fitted NIOSH/MSHA approved

respirator when the airborne contaminant level (s) exceed the exposure limits indicated on the MSDS. Follow respirator

manufacturer's directions for respirator use.

Physical and Chemical Properties

Skin: Protect hands with impervious rubber gloves and wear rubber

apron and over shoes prevent contact.

Eyes: Chemical splash goggles.

Face: Face shield is recommended.

Engineering:

Use local exhaust when the general ventilation is not sufficient to keep the airborne contaminant concentration below the exposure

limit in section II of the MSDS.

Section Nine

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Odor/ Appearance: Floral /Clear Liquid

Color: Clear Physical State: Liquid pH: 9.5

Vapor Pressure: 60 psig at 70 °F

Vapor Density:

Boiling Point:

Melting Point:

N. A.

Freezing Point:

Solubility in Water:

Specific Gravity:

Vapor Density:

N. A.

Complete

Specific Gravity:

Vapor Density:

N. A.

Solubility in Water:

Specific Gravity:

N. A.

Complete

Specific Gravity:

100.0

Section Ten

Reactivity/Stability

Stability: Stable.

Incompatible Products: Avoid contact with strong oxidizing agents.

Conditions to Avoid Polymerization: Hazardous Polymerization will not occur.

Vessel Stowage:

Transportation notes:

Section Eleven Toxicological Information Eyes: N. A. Ingestion: N. A. Inhalation: N. A. Skin: N. A. Subchronic: N. A. Chronic: N. A. **Section Twelve Ecological Information Ecotoxicological Data:** N. A. Chemical Fate: N. A. **Section Thirteen Disposal Considerations** RCRA Class: D001 -Ignitable liquid or solid waste (RQ=100.0 LB) Disposal Method: Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Incinerate at EPA approved facility or dispose of in compliance with federal, state, and local regulations. **EPA Reportable Quantities:** N. A. **Section Fourteen Transportation Data** DOT Shipping Name: Consumer Commodity **DOT Hazard Class:** Flammable Liquid DOT Label: N. A. UN/NA Number: Packing Group: **Special Provisions: Packaging** Exceptions: Non-Bulk: Non-Bulk: **Quantity limitations** Passenger aircraft or railcar Cargo Aircraft Vessel Stowage Requirements

N. A.

N. A.

Other Stowage:

Section Fifteen

Regulatory Information

TSCA Status: On the TSCA inventory.

OSHA Status: Considered hazardous based on the following criteria: Irritant

Target Organs

Liver Kidney Nerve Blood

Reproductive

Lung Skin Eye Heart

OSHA Hazardous Components CAS Number

Propane 74-98-6
Ethyl Alcohol (Ethanol) 64-17-5
Ethylene Glycol Monobutyl Ether 111-76-2

Compliance Quantities

Source Type Threshold Unit of Measure

N. A. Reportable Quantities 100.0

Sara 311Ratings

Immediate Health Hazard:NDelayed Health Hazard:YFire Hazard:NReactivity Hazard:NSudden Release of Pressure Hazard:N

Sara 313 Ingredients CAS Number

Ethylene Glycol Monobutyl Ether 111-76-2

<u>Proposition 65 Ingredients</u>: No Proposition 65 Ingredients.

Section Sixteen

Other Information

For industrial use only. Keep out of reach of children. The hazard information herein is offered solely for the consideration of the user. Subject to his own investigation of compliance with applicable regulations. Including the safe use of the product under every foreseeable condition.

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