



# Glass Cleaner Concentrate

**DESCRIPTION:**

Multi-solvent blend cleaner that rapidly penetrates and dissolves smears, smoke film, insects, soil, finger marks and food stains from glass, plastic, Plexiglas, chrome and other hard surfaces.

**DIRECTIONS FOR USE:**

(Dilute product 1:4). Using a fine spray, spray six to twelve inches from surface to be cleaned. Spray on sparingly; wipe clean. Polish immediately with a clean, dry cloth or a paper towel. A squeegee may also be used.

**CAUTION**

**KEEP OUT OF THE REACH OF CHILDREN**

**Only for sale to, use and storage by Service Personnel**

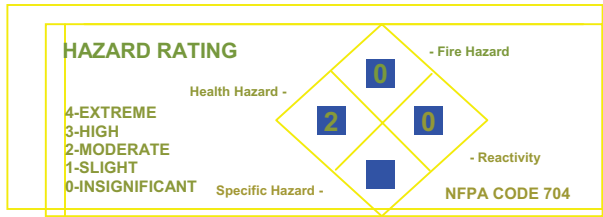
For best product efficiency keep stock rotated.  
Shelf life is 1 year.

Judgements as to the suitability of the information provided herein for the purchaser's purposes are necessarily the purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Iowa Prison Industries extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purposes or for the consequences of its use.



**MATERIAL SAFETY DATA SHEET**  
(Prepared According to 29 CFR 1910.1200)

Date Prepared: 3/23/04  
Supersedes Date: 12/2/97



**SECTION 1 - PRODUCT IDENTIFICATION**

Manufacturer Name IOWA PRISON INDUSTRIES      Emergency Telephone No. (515) 967-7651  
 Address 300 Elm St. SW, Mitchellville, Iowa 50169  
 Trade Name- **GLASS CLEANER CONCENTRATE**      Product Type-  
 Chemical Family-      Formula-

**SECTION 2 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME / COMMON NAME	CAS. NO	PERCENT (optional)	OSHA STANDARDS	ACGIH GUIDELINES
Ammonia	7664-41-7		50 PPM	25 PPM
Glycol ethers (2-Butoxyethanol)	111-76-2		25 PPM	25 PPM

**SECTION 3 - PHYSICAL DATA**

Boiling Point (°F) 212      Specific Gravity (H2O = 1.0) .994      pH- 12  
 Vapor Pressure- Ammonia, Less than 15@68°F      Vapor Density ( Air = 1) Ammonia less than 1  
 Solubility in Water-  Complete     Insoluble     Emulsifiable (or dispersible)     Slight (or partial)  
 Evaporation Rate- <1     Faster     Slower     About the Same  
 Appearance and Odor- Dark blue, butyl and/or ammonia odor.

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point-  None to Boiling    Flammable Limits-    Upper- NA    Lower- NA  
 Extinguishing Media- Not applicable  
 Special Fire Fighting Procedures- None  
 Unusual Fire and Explosion Hazards- None    Physical Hazards- None

**SECTION 5 - REACTIVE DATA**

Stability- Stable      Incompatibility- Strong Acids  
 Hazardous Decomposition Products- Ammonia, nitrogen oxides upon thermal decomposition

**SECTION 6 - HEALTH HAZARDS**

Primary Routes of Exposure-  Eye     Skin     Oral     Inhalation     Other-  
 Signs and Symptoms of Over-Exposure (Acute)- Skin contact may cause irritation. Eye contact can cause irritation, corneal edema. Prolonged eye exposure may produce permanent damage. Ingestion may cause gastrointestinal irritation. Inhalation of vapors may cause respiratory tract irritation. Prolonged exposure may cause difficulty in breathing, pulmonary edema. Prolonged skin contact may cause burns and blisters.  
 Signs and Symptoms of Over-Exposure (Chronic)- Same as Acute  
 Medical Conditions Aggravated by Over-Exposure- Skin irritation seen as redness, itching, and inflammation. Eye irritation may result in pain, redness. Ingestion may cause pain of the mouth, throat, and abdomen; coughing, followed by nausea, vomiting, and diarrhea. Inhalation may result in dizziness, drowsiness, and difficulty in breathing.  
 Carcinogen or Suspect Carcinogen Ingredients-     NTP     IARC     OSHA     NONE

**SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES**

Eyes: Flush with large amounts of water for 15 minutes lifting upper & lower lids occasionally. Get medical attention.  
 Skin: Wash with mild soap and water. Remove contaminated clothing and launder before reuse.  
 Ingestion: DO NOT induce vomiting. Drink large amounts of water. Keep person warm, quiet, and get immediate medical attention.  
 Inhalation: If affected, remove to fresh air. Administer oxygen if breathing is difficult.

**SECTION 8 - SPECIAL PROTECTION INFORMATION**

Respiratory Protection- Use NIOSH/MSHA approved respiratory protection if TLV(s) is exceeded.  
 Ventilation Requirements-  Local Exhaust     Mechanical     Other-  
 Protective Gloves- Recommended Rubber      Eye Protection- Recommended  
 Other Protective Clothing- None

**SECTION 9 - SPILL OR LEAK PROCEDURES**

Steps to be Taken if Released or Spilled- Absorb on solid absorbent and shovel into containers for disposal. Reportable Quantity (RQ) for Aqua Ammonia is 1000 lbs.  
 Waste Disposal Methods- Dispose according to Federal, State, and Local Laws and 40 CFR.

**SECTION 10 - STORAGE AND HANDLING INFORMATION**

Precautions to be Taken in Handling and Storage- Store between 40° and 100°F