

Material Safety Data Sheet

Bolex

Section 1. Chemical Product and Company Identification

Product Name	Bolex		
Product Number	BL0925		
Product Use	Toilet Bowl/Urinal Cleaner		
Manufacturer/Supplier	Amrep, Inc. 990 Industrial Park Drive Marietta, GA 30062		
Phone Number	(770) 422-2071 (Mon-Fri/ 8am- 5pm ET)		
D.O.T. Emergency Phone:	CHEM TEL (800) 255-3924 INTERNATIONAL: + 01-813-248-0584		
Date of Preparation	February 17 2012	Revision Number	1.1

Section 2. Hazards Identification

Emergency overview This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

DANGER!

Keep out of reach of children.

Keep container closed during storage. For institutional and commercial use.

Potential Acute Health Effects Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death.

Routes of Entry Eye Contact Ingestion. INHALATION Skin contact.

Eyes Severe eye irritant. Liquid and mist can cause pain, tearing, possible swelling of the conjunctiva, and corneal destruction.

Skin Severe skin irritant. Can cause chemical burns and possible ulceration.

Inhalation Irritating to mucous membranes of the nose, throat, and lungs. Can cause coughing, choking, headaches, and dizziness.

Ingestion May cause severe burning of the mouth, pharynx, and abdomen. May be corrosive to the upper gastrointestinal tract, followed by vomiting.

Medical conditions aggravated by exposure: Prolonged exposure may result in skin burns and ulcerations.

Potential Chronic Health Effects Prolonged exposure may result in skin burns and ulcerations.

Carcinogenic Effects Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Target organs

Environmental effects

Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Hydrochloric Acid	7647-01-0	23	STEL: 5	Not available.
Quaternary Ammonium Chloride	68424-95-3	<1	Not available.	Not available.
Diocetyl Dimethyl Ammonium Chloride	5538-94-3	<1	Not available.	Not available.
Quaternary Ammonium Chloride	7173-51-5	<1	Not available.	Not available.
Quaternary Ammonium Chloride	68424-85-1	<1	Not available.	Not available.

Section 4. First Aid Measures

Eye Contact	Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice.
Skin Contact	Remove contaminated clothing and shoes. Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
General Advice	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
Notes to Physician	

Section 5. Fire Fighting Measures

Flammability	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Fire Fighting Media and Instructions	N/A
Products of Combustion	Not available.
Special Remarks on Fire Hazards	N/A
Special Remarks on Explosion Hazards	
Sensitivity to Mechanical Impact	N/A
Sensitivity to Static Discharge	N/A
Protection of Fire Fighters	See special remarks on Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Methods for Containment	Corrosive liquid. Avoid runoff to sewers and waterways. Wear Protective Clothing. Absorb with inert Material. Contact you local Emergency planning commission for further instructions. Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Environmental precautions	See Methods for Containment
Methods for Clean Up	See Methods for Containment

Section 7. Handling and Storage

Precautions	Keep locked up. Keep container dry. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
Incompatibility	Strong alkalis, most metals, bleach. alkalis Incompatible with chlorinated solvents. Incompatible with alcohols and a wide variety of metals.
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room. Not for use or storage in or around the home. Keep out of the reach of children.

Keep out of reach of children.
Keep container closed during storage. For institutional and commercial use.

Section 8. Exposure Controls/Personal Protection

Engineering Controls

Personal Protection Good general ventilation should be sufficient to control airborne levels.

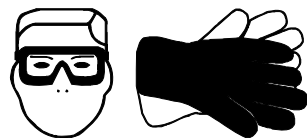
Eyes Splash goggles.

Body Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Gloves (impervious).

Protective Clothing (Pictograms)



Exposure Limits Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Characteristic.
		Color	White.
Molecular Weight	Not applicable.		
pH	<1 [Acidic.]		
Boiling/Condensation Point	210°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.1 (Water = 1)		
Vapor Pressure	30mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	95		
VOC	Not available.		
Evaporation Rate	<1		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	Non-flammable.		
Auto-ignition Temperature	Not available.		

Flash Points	Not available.
Flammable Limits	Not available.
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in presence of various materials.
Explosion Hazards in Presence of Various Substances	Not applicable

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	Strong alkalis, most metals, bleach. alkalis Incompatible with chlorinated solvents. Incompatible with alcohols and a wide variety of metals.
Hazardous Decomposition Products	Will not occur.

Section 11. Toxicological Information

Routes of Entry	
Toxicity to Animals	Eye Contact Ingestion. INHALATION Skin contact.
Acute Effects on Humans	Acute oral toxicity (LD50): 4610 mg/kg [Rat]. (Nonionic Surfactant).
Eyes	Severe eye irritant. Liquid and mist can cause pain, tearing, possible swelling of the conjunctiva, and corneal destruction.
Skin	Severe skin irritant. Can cause chemical burns and possible ulceration.
Inhalation	Irritating to mucous membranes of the nose, throat, and lungs. Can cause coughing, choking, headaches, and dizziness.
Ingestion	May cause severe burning of the mouth, pharynx, and abdomen. May be corrosive to the upper gastrointestinal tract, followed by vomiting.
Chronic Effects on Humans	Prolonged exposure may result in skin burns and ulcerations.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	No additional remark.

Section 13. Disposal Considerations

Waste Information Any method in accordance with applicable laws.

Waste Stream Not available.

Section 14. Transport Information

**DOT (U.S.A)
(Pictograms)**



TDG Classification

8



PIN UN, Proper Shipping Name, PG Shipping name: Corrosive liquids n.o.s. UNNA: 1760 PG: II

Maritime Transportation Not available.

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

Regulatory Lists No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications HCS (U.S.A.) HCS CLASS: Corrosive liquid.

USA Regulatory Lists This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL) (Safe Harbor Level).
Massachusetts RTK: Ethylene Oxide
SARA 302/304/311/312 hazardous chemicals: Hydrochloric Acid
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Hydrochloric Acid

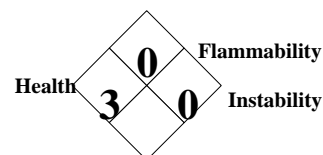
DSD (EEC)

International Regulations Lists No products were found.

Hazardous Material Information System (U.S.A.)

Health	3
Flammability	0
Physical Hazard	0

National Fire Protection Association (U.S.A.)



Specific Hazard



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Expiry date 3 (Three Years) from the date of preparation indicated in Section 1

Validated by LMorsch on 2/17/2012.

Verified by LMorsch.

Printed 2/17/2012.

Information Contact **Amrep, Inc.**
990 Industrial Park Drive
Marietta, GA 30062

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on 2/17/2012.

Bolex