



# Material Safety Data Sheet

NEPA	HMIS	Personal Protective Equipment						
	<table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">3</td> </tr> <tr> <td>Physical Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">2</td> </tr> </table>	Health Hazard	3	Physical Hazard	0	Reactivity	2	<p>See Section 15.</p>
Health Hazard	3							
Physical Hazard	0							
Reactivity	2							

Section 1. Chemical Product and Company Identification		Page Number: 1								
Common Name Trade Name	<b>Aluminum Bromide,</b>									
Manufacturer	<b>ProChem-</b> 826 Roosevelt Rd Rockford, IL 61109	<table border="1"> <tr> <td>CAS#</td> <td>7727-15-3</td> </tr> <tr> <td>RTECS</td> <td>BD0350000</td> </tr> <tr> <td>TSCA</td> <td>TSCA 8(b) inventory: Aluminum Bromide, anhydrous</td> </tr> <tr> <td>CI#</td> <td>Not available.</td> </tr> </table>	CAS#	7727-15-3	RTECS	BD0350000	TSCA	TSCA 8(b) inventory: Aluminum Bromide, anhydrous	CI#	Not available.
CAS#	7727-15-3									
RTECS	BD0350000									
TSCA	TSCA 8(b) inventory: Aluminum Bromide, anhydrous									
CI#	Not available.									
Commercial Names	Not available.	<b>IN CASE OF EMERGENCY</b> <b>CHEMTREC (24hr) 800-424-9300</b>  <b>815-398-1788</b>								
Synonym	Not available.									
Chemical Name	Aluminum Bromide, anhydrous									
Chemical Family	Not available.									
Chemical Formula	Al-Br <sub>3</sub>									
Supplier										

Section 2. Composition and Information on Ingredients					
Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	
1) Aluminum Bromide, anhydrous	7727-15-3				100
Toxicological Data on Ingredients	<b>Aluminum Bromide, anhydrous:</b> ORAL (LD50): Acute: 1598 mg/kg [Rat]. 1623 mg/kg [Mouse].				

Section 3. Hazards Identification	
Potential Acute Health Effects	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Potential Chronic Health Effects	<b>CARCINOGENIC EFFECTS:</b> Classified None. by OSHA, None. by NIOSH. (Inadequate study.) by NTP. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

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**Section 4. First Aid Measures**

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

**Section 5. Fire and Explosion Data**

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

**Section 6. Accidental Release Measures**

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill	Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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**Section 7. Handling and Storage**

Precautions	Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as acids, moisture.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

**Section 8. Exposure Controls/Personal Protection**

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 10 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States] TWA: 10 from NIOSH Respirable.  Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

Physical state and appearance	Solid.	Odor	Not available.
Molecular Weight	266.7 g/mole	Taste	Not available.
pH (1% soln. water)	Not available.	Color	White to yellowish.
Boiling Point	265°C (509°F)		
Melting Point	97.5°C (207.5°F)		
Critical Temperature	Not available.		
Specific Gravity	3.205 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Dispersed in methanol. Partially dispersed in diethyl ether. See solubility in water, methanol, diethyl ether, acetone.		
Solubility	Soluble in methanol. Partially soluble in diethyl ether, acetone.		

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**Section 10. Stability and Reactivity Data**

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Extremely reactive or incompatible with moisture. Reactive with acids.
Corrosivity	Not available.
Special Remarks on Reactivity	Reacts Violently with Water
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

**Section 11. Toxicological Information**

Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation.
Toxicity to Animals	Acute oral toxicity (LD50): 1598 mg/kg [Rat].
Chronic Effects on Humans	<b>CARCINOGENIC EFFECTS:</b> Classified None. by OSHA, None. by NIOSH. (Inadequate study.) by NTP.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of inhalation (lung irritant). Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on other Toxic Effects on Humans	Not available.

**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	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

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**Section 13. Disposal Considerations**

Waste Disposal

**Section 14. Transport Information**

DOT Classification: Class 8: Corrosive material

Identification: Aluminum Bromide, Anhydrous UNNA: UN1725 PG: II

Special Provisions for Transport: Not available.

DOT (Pictograms)



**Section 15. Other Regulatory Information and Pictograms**

Federal and State Regulations: California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Aluminum Bromide, anhydrous  
 Pennsylvania RTK: Aluminum Bromide, anhydrous  
 Minnesota: Aluminum Bromide, anhydrous  
 Massachusetts RTK: Aluminum Bromide, anhydrous  
 New Jersey: Aluminum Bromide, anhydrous  
 TSCA 8(b) inventory: Aluminum Bromide, anhydrous

California Proposition 65 Warnings

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications: WHMIS (Canada) CLASS E: Corrosive solid.  
 DSCL (EEC) R22- Harmful if swallowed.  
 R34- Causes burns.

HMIS (U.S.A.)

Health Hazard	3
Physical Hazard	0
Reactivity	2
Personal Protection	j

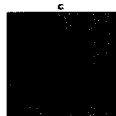
National Fire Protection Association (U.S.A.)

Health  Flammability  
 Reactivity  
 Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



**TDG (Canada)  
(Pictograms)**



**ADR (Europe)  
(Pictograms)**



**Protective Equipment**



Gloves.



Synthetic apron.



Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

**Section 16. Other Information**

**MSDS Code** 4245A

**References** Not available.

**Other Special Considerations** Not available.

**Validated by Sonia Owen on 1/20/2003.**