

**MSDS (Material Safety Data Sheet)
Silver Remover A - C1015**

1		Product Identification	
	1	Manufacturer:	
		1 Name:	Angelgilding.com
		2 Street Address:	619 S. Clarence Ave
		3 City, State, and Zip:	Oak Park, IL 60304-1303
		4 24-hour Emergency Number	(708) 383-3340
	2	Product Code(s):	Silver Remover A - C1015
	3	Preparer:	
		1 Name:	M. G. King
		2 Phone Number:	(708) 383-3340
		3 Revision Information:	6/13/2008
2		Composition/Information on Ingredients	
		Per Ingredient:	
		1 Synonyms:	POTASSIUM(I) hexacyanoferrate(III)
		2 CAS Id:	13746-66-2
		3 Formula:	K3Fe(CN)6
		4 Formula Weight:	329.25
		5 Percent:	10
		6 Hazardous:	Not a hazard
3		Hazards Identification	
	1	Overview:	CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
	2	SAF-T-DATA Ratings:	
		1 Health Rating:	1 - Slight
		2 Flammability Rating:	0 - None
		3 Reactivity Rating:	1 - Slight
		4 Contact Rating:	2 - Moderate
		5 Protective Equipment:	GOGGLES; LAB COAT; PROPER GLOVES
		6 Storage Color Code:	Green (General Storage)
	3	Potential Health Effects:	Information on the human health effects from exposure to this substance is limited. Used information for a related compound, potassium ferrocyanide, as a guide. Potassium ferrocyanide is apparently benign and does not decompose to cyanide in the body.
		1 Inhalation:	May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.
		2 Ingestion:	Large doses may cause gastrointestinal upset with nausea, vomiting, diarrhea, and possible cramping.
		3 Skin Contact:	May cause irritation with redness and pain.
		4 Eye Contact:	May cause irritation, redness and pain.
		5 Chronic Exposure:	
		6 Aggravation of Pre-existing Conditions:	
4		First Aid Measures	
	1	Inhalation:	Remove to fresh air. Get medical attention for any breathing difficulty.
	2	Ingestion:	Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

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	3	Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
	4	Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
	5	Note to Physician:	
5		Fire Fighting Measures:	
	1	Fire:	
	2	Explosion:	
	3	Fire Extinguishing Media:	Use any means suitable for extinguishing surrounding fire.
	4	Special Information:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. May emit toxic and flammable fumes of cyanide if involved in a fire.
6		Accidental Release Measures:	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.
7		Handling and Storage:	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Protect from light. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
8		Exposure Controls/Personal Protection:	
	1	Airborne Exposure Limits:	
		1 OSHA PEL:	
		2 ACGIH TLV:	
	2	Ventilation System:	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
	3	Personal Respirators (NIOSH Approved):	For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
	4	Skin Protection:	Wear protective gloves and clean body-covering clothing.
	5	Eye Protection:	Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

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9		Physical and Chemical Properties:	
	1	Appearance:	Yellow solution
	2	Odor:	
	3	Solubility in water:	Complete
	4	Density (g cm-3):	1
	5	pH:	
	6	% Volatiles by volume @ 21C (70F):	
	7	Boiling Point: °C	100
	8	Melting Point (°C):	0
	9	Vapor Density (Air=1):	
	10	Vapor Pressure (mm Hg):	
	11	Evaporation Rate (BuAc=1):	
10		Stability and Reactivity:	
	1	Stability:	Stable under ordinary conditions of use and storage. Decomposes slowly on standing.
	2	Hazardous Decomposition Products:	When heated to evaporation and decomposition or comes in contact with acid or acid fumes it emits toxic fumes of cyanides.
	3	Hazardous Polymerization:	
	4	Incompatibilities:	Ammonia, chromium trioxide + heat, cupric nitrate, sodium nitrite + heat, acids and acid fumes.
	5	Conditions to Avoid:	Light, heat, incompatibles.
11		Toxicological Information:	
	1	Oral rat LD50:	2970 mg/kg
	2	Tumorigen:	
	3	Mutagen:	Investigated
	4	Reproductive effector:	
	5	Carcinogenicity:	
	6	IARC Category:	
	7	Skin rabbit:	
	8	Eye rabbit:	
	9	Inhalation rat LC50	
12		Ecological Information	
	1	Environmental Fate:	
	2	Environmental Toxicity:	
13		Disposal Considerations:	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
14		Transport Information:	
	1	Domestic (Land, D.O.T.):	
	1	Proper Shipping Name:	
	2	Hazard Class:	
	3	UN/NA:	
	4	Packing Group:	

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		5	Information reported for product/size:	
	2		International (Water, I.M.O.):	
		1	Proper Shipping Name:	
		2	Hazard Class:	
		3	UN/NA:	
		4	Packing Group:	
		5	Information reported for product/size:	
	3		International (Air, I.C.A.O.):	
		1	Proper Shipping Name:	
		2	Hazard Class:	
		3	UN/NA:	
		4	Packing Group:	
		5	Information reported for product/size:	
15			Regulatory Information:	
	1		TSCA:	Yes
	2		EC:	Yes
	3		Japan:	Yes
	4		Australia:	Yes
	5		Korea:	Yes
	6		Canada	Yes
	7		Chemical Weapons Convention:	No
	8		Known to the State of California to cause cancer (Y/N):	No
	9		Australian Hazchem Code:	
	10		Poison Schedule:	
	11		Controlled Products Regulations:	
16			Other Information	
	1		NFPA Ratings:	
		1	Health:	3
		2	Flammability:	0
		3	Reactivity:	0
	2		Label Hazard Warning:	CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
	3		Label Precautions:	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing dust. Keep container closed. Use with adequate ventilation.

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	4	Label First Aid:	If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
	5	Product Use:	Commercial mirroring
	6	Disclaimer:	

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