SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	: ChromeFX A
Product Code	: CFX-A
Manufacturer Information	: Alsa Refinish LLC, 1213 E. 58th Pl. Los Angeles, CA 90001 Tel: 323-515-1100
Emergency Response	: Infotrac 800-535-5053 // 352-323-3035

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview	: DANGER! MAY BE FATAL IF SWALLOWED. CAUSES RESPIRATORY TRACT, DIGESTIVE TRACT, EYE AND SKIN BURNS. MAY BE HARMFUL IF INHALED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. May react or be incompatible with alkalis. Forms very sensitive explosive metallic compounds. Do not breathe vapor or mist. Do not swallow. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Potential acute health effects	
Inhalation	: May be harmful if inhaled. Corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	: May be fatal if swallowed. Corrosive to the digestive tract. Causes burns.
Skin	: Corrosive to skin. Causes burns.
Eyes	: Corrosive to eyes. Causes burns.
Over-exposure signs/symptoms	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing.
Ingestion	: Adverse symptoms may include the following: Stomach pains
Skin	: Adverse symptoms may include the following Pain, irritation, redness, blister
Eyes	: Adverse symptoms may include the following: Pain, watering, redness
Medical Conditions aggravated by over-exposure	: Pre-existing disorders involving any target organs mentioned in this SDS as being at risk may be aggravated by over exposure to this product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS Number	% (w/w)
Silver Nitrate	7761-88-8	10 – 30
Ammonia	1336-21-6	7 – 13

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Eye Contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Skin Contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Notes to Physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: FIRE FIGHTING MEASURES

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Extinguishing Media
Suitable : Use an extinguishing agent suitable for the surrounding fire.
Not suitable : None known

Special exposure hazard	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: nitrogen oxides, metal oxides.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Handling	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Large Spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section1 for emergency contact information and Section 13 for waste disposal.
Small Spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 7: HANDLING AND STORAGE

Handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Vapors are heavier than air and may spread along floors. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store above the following temperature: 120°F / 49°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Result	ACGIH	Ontario	Mexico	ALSA
Silver Nitrate	TWA	0.01 mg/m3 (as Ag)	0.01 mg/m3 (as Ag)	0.01 mg/m3 (as Ag)	Not established

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protection	
Eyes	: Chemical splash goggles and face shield.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: nitrile, neoprene
Respiratory	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Skin	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Environmental Exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Flash Point	: Closed cup: 93.33°C (200°F)
Explosion limits	: Lower 9.9%
Color	: Clear
Odor	: Not available
pH	: Not available
Boiling/condensation point	: >37.78°C (>100°F)
Melting/Freezing point	: Not available
Specific Gravity	: 1.12
Density	: (lbs/gal)
Vapor pressure	: 23.7 kPa (1.77.7 mm Hg) [room temperature]
Vapor Density	: Not available
Volatility	: 95% (v/v), 80.32% (w/w)

Evaporation Rate	: 5 (butyl acetate = 1)
Solubility	: Insoluble in cold water
partition coefficient: n-octanol/water	: Not available
% Solid (w/w)	: 19.68

SECTION 10: STABILITY AND REACTIVITY

Stability	: The product may not be stable under certain conditions of storage or use.
Conditions to avoid	: Avoid increased storage temperature. Pressure hazard
Materials to avoid	: Reactive or incomplete with the following materials: acids, oxidizing materials, strong alkalis.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Silver Nitrate	LD50 Oral	Rat	0.05 g/kg	-
Ammonia	LD50 Oral	Rat	0.35 g/kg	-

Conclusion/Summary : Not Available

Chronic toxicity

Conclusion/Summary : Not Available

Target Organs : Contains material which causes damage to the following organs: central nervous system (CNS). Contains material which may cause damage to the following organs: blood, kidneys, lungs, upper respiratory tract, skin, eyes, nose/sinuses.

Carcinogenicity

Classification:

Product/Ingredient Name	ACGIH	IARC	NTP
Silver Nitrate	-	2A	-

Carcinogen Classification Codes
ACIGH: A1, A2, A3, A4, A5
IARC: 1, 2A, 2B, 3, 4
NTP: Known to be a human carcinogen; reasonably anticipated to be a human carcinogen
Not listed or regulated as a carcinogen

SECTION 12: ECOLOGICAL INFORMATION

Environmental effects : Water polluting material. May be harmful to the environment if released in large quantities.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

SECTION 14: TRANSPORT INFORMATION

	TDG	Mexico	IMDG
UN Number	1760	1760	1760
UN Proper shipping name	Corrosive Liquid N.O.S. (Silver Nitrate)	Corrosive Liquid N.O.S. (Silver Nitrate)	Corrosive Liquid N.O.S. (Silver Nitrate)
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Environmental hazards	Yes	Yes, The environmentally hazardous substance mark is not required.	Yes.
Marine pollutant substances	(silver nitrate, ammonium hydroxide)	Not applicable	(silver nitrate)

Additional Information
TDG : The marine pollutant mark is not required when transported by road or rail.
Mexico : Not identified
IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The segregation group has been manually assigned based upon product analysis.

Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Proof of classification	: Product classified as per the following sections of the transportation of dangerous goods regulations: 2.40-2.42 (Colass 8), 2.7 (Marine pollutant mark)

SECTION 15: REGULATORY INFORMATION

Canada Inventory (DSL)	: At least one component is not listed in DSL but all such components are listed in NDSL.
Canada WHMIS (Canada)	: Class E: Corrosive liquid. Class D-1A: Material causing immediate and serious toxic effects (Very Toxic). Class D-2B: Material causing other toxic effects.

Mexico
Classification
Flammability: 1 Health: 4 Reactivity: 1

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (USA)
Health: 4 Flammability: 1 Physical hazards: 1
(*) – Chronic
Effects

National Fire Protection Association (USA)
Health: 4 Flammability: 1 Instability: 1

Disclaimer: The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Alsa Refinish LLC, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.