

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: **CLEAR 4 CHROME HARDENER**
PRODUCT CODE: **APCH-712**

HMS CODES: H F R P

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURED FOR : ALSA CORPORATION
2640 East 37th Street
Vernon, CA 90058
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Infotrac Chemical Emergency Response: (800) 535-5053 / (352)323-3500

DATE REVIEWED : December 22, 2004

SECTION II - HAZARDOUS INGREDIENTS / SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE Mm Hg @ TEMP	WEIGHT PERCENT
Isopropyl Alcohol	67-63-0		80 - 90%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: N/A

SPECIFIC GRAVITY (H₂O=1): .8

VAPOR DENSITY: Heavier than air

EVAPORATION RATE: (M - BUTYL ACETATE = 1): > 1.0

COATING V.O.C.: 5.99 lb/gl

MATERIAL V.O.C.: 5.99 lb/gl

SOLUBILITY IN WATER: Insoluble

% VOLATILE by wt: 90%

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a

UPPER: n/a

EXTINGUISHING MEDIA: FOAM, CO₂, DRY CHEMICAL, WATER FOG, OTHER SPECIAL FIREFIGHTING PROCEDURES
Respiratory equipment should be worn to avoid inhalation of concentrated vapors. Water should not be used except as fog to keep nearby containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may build explosive pressure from heat. Vapors are heavier than air and may travel a considerable distance to a source of ignition such as spark, pilot light, cigarette or unprotected electrical device. Not sensitive to explosion upon mechanical impact. Contact with heat may result in pressure release from closed containers.

SECTION V - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID

Excessive heat, poor ventilation, corrosive atmospheres, excessive aging, high temperatures

CAUTION: Aluminum is present, could react with water to form H₂ gas.

INCOMPATIBILITY (MATERIALS TO AVOID)

strong acids and oxidizing materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon monoxide, carbon dioxide, oxides of nitrogen, and possibly hydrogen chloride.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Inhalation: Dizziness, breathing difficulty, weakness, nausea, headaches & loss of coordination. Excessive inhalation of vapors may cause nasal & respiratory irritation.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Eye contact: Severe irritation, tearing, redness and blurred vision. Wear approved Eye Protection.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Skin contact: Can dry and defat skin causing cracks, irritation, and dermatitis. Material may be absorbed through the skin in toxic amounts.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Ingestion: Can cause gastrointestinal irritation, vomiting, nausea, and diarrhea. Aspiration of material into lungs may cause chemical pneumonitis which can be fatal or may have systematic effects.

OTHER: Routes of entry: Skin contact, eye contact, inhalation, ingestion.

HEALTH HAZARDS (ACUTE AND CHRONIC)

INFORMATION NOT AVAILABLE.

CARCINOGENICITY:

NTP CARCINOGEN: INFORMATION NOT AVAILABLE.

IARC MONOGRAPHS: INFORMATION NOT AVAILABLE.

OSHA REGULATED: INFORMATION NOT AVAILABLE.

INFORMATION NOT AVAILABLE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

INFORMATION NOT AVAILABLE.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation - Move person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.

Eye contact - flush with large quantities of water for 15 minutes, lifting upper and lower lids. Seek medical attention.

Skin contact - Wash thoroughly with soap and water and seek medical attention.

Ingestion - Do not induce vomiting! Contact physician immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all sources of ignition, provide adequate ventilation, dike spill area and add absorbent earth or sawdust to spilled liquid. Sweep up and dispose of in appropriate containers in accordance with Federal, State and/or Local regulations.

WASTE DISPOSAL METHOD

Collect absorbent/water/spilled liquid mixture into metal containers and add enough water to cover. Seal container and label. Consult local, state & federal hazardous waste regulations before disposing into approved hazardous waste landfills. Use licenced hazardous waste disposal agency. Obey relevant laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Use non-sparking utensils when handling this material. Avoid hot metal surface. Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames.

OTHER PRECAUTIONS

Smoking in area where this material is used should be strictly prohibited. Tools used with this material should be made from aluminum, brass or copper. Plastic utensils should not be used.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION

No respirator needed if adequate ventilation is provided, otherwise when spraying this material use a NIOSH approved cartridge respirator or gas mask suitable to keep airborne mists and vapor concentrations below the time weighted threshold limit values. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

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VENTILATION

General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equip. must be explosion proof.

PROTECTIVE GLOVES

Impermeable chemical handling gloves for skin protection.

EYE PROTECTION

Use chemical safety glasses, goggles, and faceshields for eye protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of head caps whenever possible is strongly recommended.

WORK/HYGIENIC PRACTICES

Eye washes and safety showers in the workplace are recommended.

SECTION IX – DISCLAIMER

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by ALSA CORPORATION to be accurate. As with all chemicals, KEEP AWAY FROM CHILDREN AND ANIMALS. FOR INDUSTRIAL USE ONLY.