



MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

043P

Fine UV Silver Paste

North America:

NOR-COTE INTERNATIONAL, INC.

506 Lafayette Avenue
Crawfordsville, Indiana 47933
United States

Phone: 765-362-9180 (day phone)

MSDS Issuer: EHS Department

Emergency Phone:

CHEMTREC (United States)

800-424-9300

Europe:

NOR-COTE INTERNATIONAL LTD.

Unit 8 Warrior Park
Eagle Close
Chandlers Ford Industrial Estate
Eastleigh, Hampshire
SO53 4NF

England

Tel: +44 (0) 23 80270542 (day phone)

Emergency Phone:

CHEMTREC (Outside U.S.)

703-527-3887

Asia:

NOR-COTE INTERNATIONAL PTE. LTD.

Blk 4012 Ang Mo Kio Ave 10
#05-08 Techplace 1,
Singapore 569628

Tel: +65 6291-0898 (day phone)

SECTION 2 INGREDIENTS

CHEMICAL NAME	PERCENT BY WEIGHT	CAS#	EXPOSURE LIMITS	EC#
Aluminum	45-50%	7429-90-5	10 mg/m ³ (ACGIH TLV) 15 mg/m ³ (OSHA PEL)	231-072-3
Proprietary Photoinitiator Mixture	45-50%	Proprietary	Not established	Proprietary
Stearic Acid	<1.5%	57-11-4	Not established	200-313-4

SECTION 3 HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Dermal, Inhalation, Ingestion

GENERAL HEALTH EFFECTS: Irritant to skin, eyes and respiratory tract. Effects may be delayed for several hours.

ACUTE:

- **Skin Contact:** Potential irritant and can cause allergic skin reaction. Repeated or prolonged contact may cause sensitization.
- **Eye Contact:** Liquid, vapors, or mists may cause eye irritation. Protect eyes from repeated or prolonged contact.
- **Inhalation:** May cause irritation to upper respiratory tract upon prolonged or repeated inhalation.
- **Ingestion:** May be harmful if swallowed. Gastrointestinal tract irritation may result.

CHRONIC: No data available

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No data available. Repeated and prolonged overexposure may increase the potential for adverse health effects.

SECTION 4 FIRST AID MEASURES

SKIN CONTACT: Flush skin with running lukewarm water. Wash affected areas using mild soap. Contact a physician if irritation or redness persists.

EYE CONTACT: Flush the eye and under lids with warm water for minimum of 15 minutes. Remove any contact lenses during the flushing. Get immediate medical attention if irritation persists.

INHALATION: Move subject to fresh air and keep warm. If subject is not breathing, administer artificial respiration and get immediate medical attention.

INGESTION: Medical attention is not anticipated, but if appreciable quantities are swallowed, get medical attention.

SECTION 5 FIRE FIGHTING MEASURES

Evacuate area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self-contained breathing apparatus. At elevated temperatures hazardous polymerization may occur causing container rupture and in extreme cases, explosion. Fight fires from upwind and cool intact containers with water spray or stream at maximum range.

FLASHPOINT: Not established

FLAMMABLE/EXPLOSIVE LIMITS (Volume % in air): Not established

AUTO-IGNITION TEMPERATURE: Not established

EXTINGUISHING METHOD: Water fog, carbon dioxide (CO₂) or dry chemical



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Cover and soak up spills with absorbent, non-combustible material such as sand, sweeping compound or diatomaceous earth. Collect material and place it in labeled, closed containers for disposal as solid in accordance with Section 13. Wear recommended personal protective equipment from Section 8. For large spills, dike the area to prevent runoff from contacting public drains, sewers, or streams.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Protect containers from physical damage. Storage of containers should conform to flammable and combustible liquid regulations.

OTHER PRECAUTIONS: Store away from heat and sunlight below 120° F (49° C).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

HAND PROTECTION: Use solvent resistant gloves to minimize contact. Wash all affected areas prior to eating and at completion of handling. Replace immediately if punctured or torn or when a change of appearance (color, elasticity, shape) occurs.

EYE PROTECTION: Use safety glasses or chemical splash goggles that are ANSI approved to prevent eye contact. Eyewash availability is also recommended.

SKIN PROTECTION: Protective or disposable outer clothing is recommended.

RESPIRATORY PROTECTION: Use proper general or local exhaust ventilation to maintain concentrations below exposure limits in Section 1. If adequate ventilation is not available, use of a NIOSH approved respirator for environments containing solvents is recommended where exposure limits are exceeded.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Metallic silver paste with mild acrylic odor

BOILING POINT: Not established

SPECIFIC GRAVITY: Not established

VAPOR DENSITY: Not established

SOLUBILITY IN WATER: Not established

EVAPORATION RATE: Not established

FREEZING POINT: Not established

VISCOSITY (at 25°): Not established

VOC: Not established

pH: Not established

DENSITY: Not established

SECTION 10 REACTIVITY / STABILITY HAZARD DATA

STABILITY: This material is stable when used under normal conditions.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon monoxide and /or carbon dioxide and aluminum oxide. Aluminum reacts with water, oxidizing agents, acids, and alkalis to produce hydrogen gas.

CONDITIONS TO AVOID: Avoid contact with heat and sunlight.

INCOMPATIBILITY (MATERIALS TO AVOID): Aluminum is incompatible with water, acids, caustics, halogenated hydrocarbons (including halogenated extinguishing agents) and oxidizers.

SECTION 11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA: No data available

LD50 – Not determined **LC50 –** Not determined

REPRODUCTIVE TOXICITY: Not determined

TERATOGENICITY: Not determined

MUTAGENICITY: Not determined

CARCINOGENICITY: **IARC?** No

NTP? No

OSHA? No

SECTION 12 ECOLOGICAL INFORMATION

No data available. No determination has been made on ecological impact. However, it is highly recommended to prevent contamination of the environment with this product, i.e. soil, landfills, drains, sewers, surface waters, etc.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of this material in accordance with all applicable federal, state, provincial, and local laws and regulations.



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SECTION 14 TRANSPORTATION INFORMATION

Transport this product in accordance with all applicable laws and regulations.

SECTION 15 REGULATORY INFORMATION

This Material Safety Data Sheet has been formatted to the best of our ability in accordance with American National Standards Institute (ANSI), European Communities (EC), and contains hazard criteria and all information required by the Canadian Controlled Products Regulation (CPR) in regard to this product.

International Inventory Status: Status on International Inventory lists such as the Canadian Domestic Substances List, European Inventory of Existing Chemical Substances (EINECS), and Japan Existing and New Chemical Substances (ENCS) inventories is currently being confirmed.

Canadian Workplace Hazardous Material Information System (WHMIS): The following chemicals are on the ingredient disclosure list: Aluminum
Stearic Acid

U.S. FEDERAL REGULATIONS

Coalition of Northeastern Governors (CONEG): This product meets the requirements of CONEG pertaining to heavy metals total content of no more than 100 PPM. No heavy metals are added as a part of the formulation, but raw materials may contain residual parts per million as naturally occurring elements.

Food and Drug Administration (FDA) Food Packaging Status: This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food additive.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III:

Section 302 – Extremely Hazardous Substances (EHS): This product is not regulated as an EHS.

Section 304 - CERCLA: This product is not regulated for emergency release notification.

Section 311/312 – Hazard Communication Standard (HCS): This product is classified as an acute hazard.

Section 313 – Toxic Chemical List (TCL): This product contains the following chemicals regulated under the Toxic Chemical Release Reporting requirements under 40 CFR 372: Aluminum

Toxic Substances Control Act (TSCA)

Section 5(e): This product is not regulated under the Consent Order/Significant New Use Rule.

Section 8(b) – Inventory Status: All chemicals in this product are TSCA listed.

SECTION 16 OTHER INFORMATION

Definitions

TWA – Time Weighted Average

TLV – Threshold Limit Value

STEL – Short Term Exposure Limit

CAS# - Chemical Abstract Service Number

NTP – National Toxicology Program

PEL – Permissible Exposure Limit

IARC - International Agency for Research on Cancer

ANSI – American National Standards Institute

Supersedes:

December-1-2004

Disclaimer: To the best of our knowledge, the product information contained herein is based upon data believed to be reliable, however Nor-Cote makes no warranty and disclaims any liability whatsoever for its accuracy or completeness. Since the actual use of the product is beyond our control, no guarantee expressed or implied, is made by Nor-Cote as to the effects of such uses nor does Nor-Cote assume liability arising out of the use of this product by others. It remains the responsibility of the user to ensure that the use of the product herein is in accordance with all applicable laws and regulations.