UW Solutions
The science beneath the surface

SAFETY DATA SHEET

SECTION 01 – IDENTIFICATION

Product Name/Identifier:
ChromaLuxe HD Aluminum, ChromaLuxe CG Aluminum, Unisub Aluminum

Recommended Use:
Hard Surface Sublimation Photographic, Signage and Photo Gift Media

Supplier Identification:
UW Solutions
2600 Grassland Dr.
Louisville, KY 40299-2591
USA
Emergency Telephone No: (502) 491 1477
Other Information Calls: (502) 491 1461

Emergency Information:
CHEMTREC (24 hrs)
U.S./North America: (800) 424-9300
International: (703) 527-3887

SECTION 02 – HAZARD(S) IDENTIFICATION

GHS-US Hazard Classification
This product is an article as defined under OSHA regulation 29 CFR 1910.1200. In its manufactured and shipped form, this product does not present hazards leading to physical or health hazards under GHS hazard classification.
Hazards not otherwise classified: Certain processing conditions which will alter the present form may change the hazardous nature of the product. The classification presented below is based on the potential of chemical exposure upon alteration of the present form:
Combustible Dust (May form combustible dust concentrations in air.)

Label Elements
No labeling required.

Other Hazards
Fabricating, cutting, drilling, etc. of this product may produce dust, which may irritate the eyes, skin and respiratory system.

Unknown acute toxicity
Not applicable.

SECTION 03 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance
This material is aluminum. As such, it is essentially inert (non-toxic) during handling and storage
Please Note: Other components used in the sublimation process such as inks are separate materials and are not covered in this SDS.

Mixture

Chemical Name	CAS Number	Weight %
Aluminum	7429-90-5	>92
Zinc	7440-66-6	< 5.85
Magnesium	7439-95-4	<5.50
Silicon	7440-21-3	<2.0
Manganese	7439-96-5	<1.50
Chromium	7440-47-3	<0.35
Nickel	7440-02-0	<0.05
Lead	7439-92-1	<0.01
Surface Finish	Trade Secret	<0.01

Surface finishes are factory applied. These products are classified as an "article" according to 29 CRF 1910.1200(c). There is no release of any hazardous chemical under normal conditions of use.

SECTION 04 – FIRST-AID MEASURES

Description of First Aid Measures
Eyes: Unlikely route of exposure. Dust from processing may cause slight irritation. Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical advice.
Skin: Does not pose a potential of skin irritation and sensitization. Wash affected areas with soap and water. Get medical advice if persistent irritation or dermatitis occurs.
Inhalation: Unlikely route of exposure. Dust from processing inhalation of dust in high concentration may cause irritation of respiratory system. Hazard is unlikely. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should administer oxygen. Seek immediate medical attention.
Ingestion: Unlikely route of exposure. Dust from processing may be harmful if swallowed, rinse mouth thoroughly.

Most Important Symptoms
Acute and Delayed Effects: Dust from processing may cause reversible physical eye irritation.
Chronic Effects: No known chronic effects of components present at greater than 1%.
Aggravated Medical Conditions: Skin disorders. Asthma.

Indication of Immediate Medical Attention/Special Treatment: Treat symptomatically.

SECTION 05 – FIRE-FIGHTING MEASURES

Extinguisher Media
As shipped, this product does not present fire or explosion hazards. Dust from processing may be readily ignitable. Use dry chemical extinguisher.
Unsuitable Extinguisher Media: DO NOT USE WATER OR FOAM.

Special Hazards
Flammable Properties: As shipped, this product does not present fire hazard. Avoid generation of dust, may form ignitable concentrations in air.

Flammable Limits:	Lower	Upper
in Air % by Volume:	NA	NA

Flash Point: NA
Auto-Ignition Temperature: 400 -500 degrees F for dust
Explosive Limits: As shipped, this product does not present explosion hazards. Avoid generation of dust, sufficient concentrations in the air in the presence of an ignition source is a potential explosion hazard. See below under Unusual Fire and Explosion Hazards

Explosion Data

Sensitivity to Mechanical Impact:	None
Sensitivity to Static Discharge:	None

Unusual Fire and Explosion Hazards: Sawing, sanding or machining can produce dust as a by-product which may present an explosion hazard if a dust cloud contacts an ignition source.

Advice for Fire Fighting: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 06 –ACCIDENTAL RELEASE MEASURES

Personal Precautions
Ensure adequate ventilation. Use personal protective equipment. Avoid generation of dust or allow dust deposits to accumulate as these may form explosive mixture if released into the atmosphere in sufficient concentration.

Methods for Containment
Not applicable for product as shipped. Contain for re-use.

Methods for Cleaning Up
No special precautions for large product fragments. For dust cleanup use protective equipment. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

SECTION 07 –HANDLING AND STORAGE

Safe Handling
Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid dust formation. Do not breathe vapors/dust.
Do not touch heated product without knowing metal temperature. Product experiences no color change during heating. Contact with hot metal can cause skin and eye burns.

Safe Storage
Keep in a dry, cool and well-ventilated place. Store away from acids and incompatible materials.

SECTION 08 –EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: The following table lists exposure limits for all chemicals listed in Section 3 where a limit exists.

Chemical Name	CAS	ACGIH (TWA)	OSHA PEL
Aluminum	7429-90-5	1 mg/m^3 (respirable fraction)	TWA: 15 mg/m^3 (total dust) TWA: 5 mg/m^3 (respirable fraction)
Silicon	7440-21-3		TWA: 5 mg/m^3 (respirable)
Manganese	7439-96-5	0.02 mg/m^3 (respirable fraction) 0.1 mg/m^3 (inhalable fraction)	Ceiling: 5 mg/m^3
Chromium	7440-47-3	0.5 mg/m^3	TWA: 1.0 mg/m^3
Nickel	7440-02-0	1.5 mg/m^3 (inhalable fraction)	TWA: 1.0 mg/m^3
Lead	7439-92-1	0.05 mg/m^3	TWA: 50 $\mu g/m^3$

Engineering Controls
Ensure adequate ventilation. Usually not necessary to reduce exposures to TLV during normal expected use. General or local exhaust may be necessary to minimize odors in small rooms. All confined space work should be done in accordance with OSHA 1910.146.
Formation of dust. It is recommended that all dust control equipment such as local exhaust ventilation contain explosion relief vents or an explosion suppression system. Ensure that dust-handling systems are designed in a manner to prevent the escape of dust into the work area.

Personal Protective Equipment
Hand protection: Possible material handling hazard (cuts, abrasion). Use cut-proof cloth or leather gloves if necessary or requested. Possible burns when heated. Use heat-resistant gloves if necessary or requested.
Eye Protection: Safety glasses required.
Respiratory Protection: Usually not necessary to reduce exposures to TLV during anticipated normal use. If requested, due to odor or if TLV is exceeded; use organic vapor filtration system with a respirator type appropriate for the exposure level.
Other Protective Clothing or Equipment: None known.

SECTION 09 –PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Appearance/Color: Silver/gray metal sheet with white or clear factory finish
Odor: Odorless as manufactured and shipped. The sublimation process may create a slight odor.
pH: N/A
Melting Point Range: 970-1200 ˚F / 520-650 ˚C
Boiling Point: 4550 ˚F / 2450 ˚C
Flash Point: N/A
Specific Gravity: 0.4- 0.8
Vapor Pressure (mm Hg): no data available
Percent Volatile by Volume (%): 0
Vapor Density (Air = 1): no data available
Evaporation Rate (BuAc = 1): N/A
Solubility in Water: no data available
Reactivity in Water: none known
Explosion Limits: no data available
Density: 0.095-0.103 lbs/in^3

SECTION 10 –STABILITY AND REACTIVITY

Reactivity

This product is not reactive as manufactured and shipped. Dust or fine particles are violently reactive to strong oxidizers with considerable heat generation.

Chemical Stability

Stable under recommended storage conditions.

C**onditions to Avoid**

Avoid storage or potential contact with strong oxidizing agents. Avoid formation of dust.

Incompatibility (Materials to Avoid)

Acids. Alkalis. Hydroxides. Halogens.

SECTION 11 –TOXICOLOGICAL INFORMATION

As manufactured and shipped, no hazards anticipated during expected handling and storage.

Chronic Toxicity:	No known chronic effects of components present at greater than 1%.
Carcinogenicity:	No known carcinogens are present at greater than 1%.
Sensitization:	None known
Mutagenic Effects:	None known
Reproductive Toxicity:	None known
Developmental Toxicity:	None known
Target Organ Effects:	No known effects under normal use conditions.

SECTION 12 –ECOLOGICAL INFORMATION

Ecotoxicity:	No Information available on the adverse effects
Mobility:	No Information available on the adverse effects
Persistence and Degradability:	No Information available on the adverse effects
Bioaccumulative Potential:	No Information available on the adverse effects
Other Adverse Effects:	No Information available on the adverse effects

SECTION 13 –DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Recycle wherever possible. Dispose of in accordance with all applicable national and local environmental laws and regulations.

SECTION 14 –TRANSPORT INFORMATION

DOT (Department of Transportation):	Non-regulated
Hazard Class or Division:	Non-regulated
IMO/IMDG code (Ocean) Hazard Class of Division:	Non-regulated
IATA:	Considered non-hazardous for air transport

SECTION 15 –REGULATORY INFORMATION

The following listing of regulations relating to this product as manufactured and shipped may not be complete and should not be solely relied upon for all regulatory compliance responsibilities.

U.S. Federal Regulatory Information

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	Threshold Values %
Aluminum (dust or fume only)	7429-90-5	>92	1.0
Zinc (dust or fume only)	7440-66-6	< 5.85	1.0
Manganese	7439-96-5	<1.50	1.0
Chromium	7440-47-3	<0.35	1.0
Nickel	7440-02-0	<0.05	0.1
Lead	7439-92-1	<0.01	0.1

SARA 311-312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SECTION 16 –OTHER INFORMATION

Issuing Date: June 9, 2012
Expiration Date: September 2026
6/2012 (original)
9/2015 (revision GHS)
4/2019 (update revision)
2/2023 (review/update revision)
9/2023 (revision 3)

Disclaimer

The condition or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.