



MSDS No: 003

Date: 2019-05-1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Longstar UV printing Aluminum sheet
Chemical Family: Non-alloy
Chemical Formula:
Chemical Name:
Processing method: Coated with Polyurethane Resin
Product Use: UV printing Aluminum

2. COMPOSITION INFORMATION

Trade name & Synonyms: Longstar UV printing Aluminum sheet
Description: Aluminum with UV printing coating
Formula: NA
Chemical Listed as Carcinogen or Potential Carcinogen: NA
Physical State: Solid
Appearance: Shaped as a panel
Odor: None

Potential Health Affects

Accute Toxicity

Eyes	May cause slight irritation.
Skin	Does not pose a potential of skin irritation and sensitization.
Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Ingestion	Not an expected route of exposure. Ingestion may cause irritation to mucous membranes. May be harmful if swallowed.

Chronic Affects: No known chronic effects of components present at greater than 1%.

Aggravated Medical Conditions: Skin disorders. Asthma.

Please Note: Other components used in the UV printing process such as inks are separate materials and not covered in the MSDS.

The UV printing or engraving process could also create an odors.

3. HAZARDS IDENTIFICATION

Principal Hazardous Component (s): This material is aluminum. As such, it is essentially inert (non-toxic) during handling and storage. This MSDS also discusses potential hazards created in the UV printing process. Only information specific to aluminum is included as required.

PLEASE NOTE: Other components used in the UV printing process such as inks are separate materials and are not covered in this MSDS.

<u>CAS Number</u>	<u>Component</u>	<u>Percent</u>
7429-90-5	Aluminum	>92
7439-95-4	Magnesium	<5.5
7439-96-5	Manganese	<1.5
7440-21-3	Silicon	<2.0
7440-66-6	Zinc	<5.85
7440-47-3	Chromium	<0.35
7440-02-0	Nickel	<0.05
7439-02-0	Lead	<0.01

Primary Routes of Exposure: Hazard is unlikely. Inhalation of decomposition products possible.

4. FIRST AID MEASURES

Inhalation: Hazard is unlikely. Remove from further exposure. Keep warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should administer oxygen. Seek immediate medical attention.

Eyes: Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical advice.

Skin: Wash affected areas with soap and water. Get medical advice if rash or persistent irritation or dermatitis occurs.

Ingestion: Not applicable.

5. FIRE FIGHTING MEASURES

Explosive Limits: See below under Unusual Fire and Explosion Hazards

Flammable Properties: Finely divided aluminum powder or dust may form explosive mixtures in air.

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

Flash Point: NA

Extinguisher Media: Sand, water, carbon dioxide.

Unsuitable Extinguisher Media: DO NOT USE WATER OR FOAM.

Auto-Ignition Temperature: 400 -500 degrees F for dust

Explosion Data

Sensitivity to mechanical impact: None

Sensitivity to Static Discharge: None

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

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.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up: Wear personal protective equipment. No special precautions for large product fragments. For dust clean up, transfer to proper containers.

Other Precautions: Use sufficient local or general ventilation to reduce odors.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid dust formation. Do not breathe vapors/dust. Aluminum experiences no color change during heating. Contact with hot metal can cause skin and eye burns.

Storage: Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Ventilation: Usually not necessary to reduce exposures to TLV during normal 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.

Protective Gloves : Possible material handling hazard (cuts, abrasion). Use cloth or leather if necessary or requested.

Eye Protection: Safety glasses required.

Other Protective Clothing or Equipment: None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: NA

Specific Gravity: 0.4- 0.8

Vapor Pressure (mm Hg): NA

Percent Volatile by Volume (%): 0

Vapor Density (Air = 1): NA

Evaporation Rate (butyl acet = 1): NA

Solubility in Water: <0.1 %

Reactivity in Water: None known

Physical State: Solid

Boiling Point Range: NA

Explosion Limits: NA

Density: 0.095-0.103 lb/in³

Melting Point Range: 915-1215o F

Appearance and Odor: Longstar UV printing Aluminum sheet is shaped as a panel. The UV printing or engraving process could also create an odor.

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Excessive dust build up can create fire or explosive conditions.

Incompatibility (Materials to Avoid): Avoid contact with oxidizing agents. Avoid contact with acids, alkalis, hydroxides, halogens. Avoid open flame. Product (sawdust) may ignite in excess of 400 degree F.

Hazardous Decomposition Products : Thermal and/or thermal oxidative decomposition can produce irritating and toxic fume and gases, including carbon monoxide, hydrogen cyanide, aliphatic aldehydes, rosin acids, terpenes and polynuclear aromatic compounds.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Product is a solid sheet of aluminum. No hazards anticipated during 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: No Information available on the adverse effects

Mutagenic Effects: No Information available on the adverse effects

Reproductive Toxicity: No Information available on the adverse effects

Developmental Toxicity: No Information available on the adverse effects

Target Organ Effects: No Information available on the adverse effects

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

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with all applicable national environmental laws and regulations.

Contaminated Packaging: Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT (Domestic surface)

Hazard Class or Division: non-regulated

IMO/IMDG code (Ocean) Hazard Class of Division: non-regulated

IATA: Non-Hazardous for Air Transportation: This material is considered to be non-hazardous for air transportation.

15. OTHER INFORMATION

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.

