# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION AND USE

Product Name: Sun METALLICS® Aluminum Pigment Paste

Manufacturer: Emergency Telephone No: 0513-88789274

DIC (Nantong) Metallic Pigment Co., LTD

Add: NO.198, West Jianghai Rd., Hai'an Industry Zone, Nantong, Jiangsu, PRC

## **SECTION II - HAZARDOUS INGREDIENTS**

HAZARDOUS	CAS NUMBER	%	ACGIL (TLV)	FLASH PT	BOILING PT
INGREDIENTS		INGREDIENT			
Aluminum	7429-90-5	65-70	10mg/m3	NA	NA
Naphtha	8030-30-6	10-12	NA	>33C	140-200C
Naphtha Light	64742-95-6	20-25	NA	>42C	161-171C
Aromatic					

### **SECTION III - PHYSICAL DATA**

Form	Pasty		
Color	Silver-colored		
Odor	Characteristic		
Boiling Range	140-200 ℃		
Flash Point	>33 °C		
Ignition temperature	240 ℃		
Self-igniting	Product is not self-igniting		
Danger of explosion	Product is not explosive. However, formation of		
	explosive air/vapor mixtures are possible		
Explosion limits	Lower: 0.6 Vol%		
	Upper: 7.5%Vol%		
Vapor pressure at 20 ℃	5hPa		
Density	1.3-2.0 g/cm³		
Solubility in/ Miscibility with water	Insoluble		

## **SECTION IV - FIRE AND EXPLOSION DATA**

*Flammability:* Combustible Paste. Avoid all sources of ignition.

*Suitable extinguishing agents:* special powder for metal fires. Do not use water. Use class "D", dry chemical extinguisher or other suitable extinguishing material such as dry sand.

For safety reasons unsuitable extinguishing agents: Water, Carbon dioxide

**Protective equipment:** Wear fully protective suit. **Hazardous combustion products:** Hydrogen gas.

*Sensitivity to impact:* Not available

Sensitivity to static discharge: Yes, dust explosion

## **SECTION V - REACTIVITY DATA**

### Thermal decomposition / conditions to be avoided:

- *No decomposition if used according to specifications.*
- No decomposition if used and stored according to specifications.

## Dangerous reactions

- Reacts with acids, alkalis and oxidizing agents.
- Danger of explosion when dry.
- Reacts when heated with acids and alkalis releasing hydrogen.

### Dangerous decomposition products:

• *No dangerous decomposition products known.* 

### **SECTION VI - TOXICOLOGICAL PROPERTIES**

Route of Entry: Skin Contact, Eye Contact, Inhalation, Ingestion

Effects of Chronic Exposure to Product: None Known

Exposure Limits: Not Known

Sensitization to Products: Not Known Carcinogenicity: Not listed by N.T.P.

Teratogenicity: Not Known

Reproductive Toxicity: Not Known

Mutagenicity: Not Known

Synergistic Products: Not Available

## Primary irritant effect:

- *on the skin:* No irritant effect.
- *on the eye:* No irritating effect.
- **Sensitization:** No sensitizing effects known.

#### Additional toxicological information:

• Inhalation of concentrated vapors as well as oral intake will lead to anesthesia-like conditions and headache, dizziness, etc.

## **SECTION VII - PREVENTIVE MEASURES**

### Personal protective equipment:

# General protective and hygienic measures:

- Wash hands before breaks and at the end of work.
- Do not eat, drink, smoke or sniff while working.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing

#### Respiratory protection:

• Suitable respiratory protective device recommended.

## **Protection of hands:**

- Solvent resistant aloves
- Preventive skin protection by use of skin-protecting agents is recommended.
- Prior to contact with the water insoluble substance / product / preparation apply water soluble skin-protecting agent (fat-free film former or O/W-emulsions).

### *Material of gloves*

• The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove

material can not be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material

• The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye protection:

• Safety glasses

### SECTION VIII - ACCIDENTAL RELEASE MEASURES

### Person-related safety precautions:

- Wear protective equipment. Keep unprotected persons away.
- Remove persons from danger area.
- Keep away from ignition sources.
- Avoid formation of dust.

### Measures for environmental protection:

• Do not allow to enter sewers/ surface or ground water.

### Measures for cleaning/collecting:

- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### SECTION IX - HANDLING AND STORAGE MEASURES

#### Information for safe handling:

- Keep receptacles tightly sealed.
- Store in cool, dry place in tightly closed receptacles.
- Keep away from heat and direct sunlight.
- Prevent formation of dust.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

#### Information about fire - and explosion protection:

- Keep ignition sources away Do not smoke.
- Protect from heat.
- Protect against electrostatic charges.

### Requirements to be met by storerooms and receptacles:

• Store in a cool location.

#### Information about storage in one common storage facility:

• Store away from flammable substances.

## Further information about storage conditions:

- Store in cool, dry conditions in well sealed receptacles.
- Protect from humidity and water.

### **SECTION X - FIRST AID MEASURES**

#### General information:

- Take affected persons out into the fresh air.
- Take affected persons out of danger area and lay down.

#### After inhalation:

• Supply fresh air: consult doctor in case of complaints.

#### After skin contact:

- *Immediately wash with water and soap and rinse thoroughly.*
- *Generally the product does not irritate the skin.*

### After eye contact:

• Rinse opened eye for several minutes under running water.

#### After swallowing:

• Do not induce vomiting; call for medical help immediately.

### SECTION XI - DISPOSAL CONSIDERATIONS

#### **Product:**

• **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

### Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

### SECTION XII - TRANSPORTATION INFORMATION

### Land transport ADR/RID (cross-border)

- ADR/RID class: 4.1 Flammable solids, self-reactive substances and solid desensitized explosives.
- Danger code (Kemler): 40
- *UN-Number: 1325*
- Packaging group: II
- Hazard label 4.1
- Description of goods: 1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (aluminum pigment paste)

#### Maritime transport IMDG:

- IMDG Class: 4.1
- *UN Number: 1325*
- Label 4.1
- Packaging group: II
- EMS Number: F-G,S-G
- Marine pollutant: No
- Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminum pigment paste)

### Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: 4.1
- *UN/ID Number: 1325*
- *Label 4.1*
- Packaging group: II
- Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminum pigment paste)

### SECTION XIII - REGULATORY INFORMATION

#### Labeling according to US guidelines:

• The product has been classified and marked in accordance with US Directives, Ordinance on Hazardous Materials.

## Code letter and hazard designation of product:



• Flammable

## Risk phrases:

- Highly flammable.
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Repeated exposure may cause skin dryness or cracking.
- Vapors may cause drowsiness and dizziness.

## Safety phrases:

- Keep container tightly closed and dry.
- In case of fire, use dry sand. Never use water.