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## 1. IDENTIFICATION

### Product identifier

Product code **SIPM573**  
Product name **SIPM573 2871 Aluminum Pigment**  
Product category **Metallic Powder or Paste**

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use Industrial Printing Operations

### Details of the supplier of the safety data sheet

UNITED STATES	UNITED KINGDOM
Nazdar Company	Nazdar Limited
8501 Hedge Lane Terrace	Barton Road
Shawnee, KS 66227	Heaton Mersey
Tel: +001-913-422-1888	Stockport, England SK4 3EG
Tel: +001-800-677-4657	Tel: +44 161 442 2111
Fax: +001-913-422-2294	
www.nazdar.com	

### Emergency telephone number

USA: Chemtrec: +001-800-424-9300  
Outside USA: Chemtrec: +001-703-527-3887  
24 Hour Emergency Phone Number

## 2. HAZARDS IDENTIFICATION

### Classification

Acute aquatic toxicity	Category 1 - (H400)
Flammable solids	Category 2 - (H228)

### Label elements



### Signal word

Warning

### Hazard statements

H228 - Flammable solid  
H400 - Very toxic to aquatic life

### Precautionary Statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Hazards not otherwise classified (HNOC)**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

Chemical name	CAS No	Weight-%	Trade secret	Note
Aluminum powder (stabilized)	7429-90-5	60 - 80	*	
Surfactant	Not Available	10 - 30	*	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST-AID MEASURES****Description of first aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

**Skin Contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

**Inhalation**

If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately. Remove person to fresh air and keep comfortable for breathing.

**Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Most important symptoms and effects, both acute and delayed**

None under normal use conditions.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**Unsuitable Extinguishing Media**

Do not use water.

**Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions. Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment (i.e., building, cargo hold, etc.).

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Sealed containers may rupture when heated.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Evacuate personnel to safe areas. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid contact with eyes, skin and clothing. Ventilate the area. Avoid breathing dust or vapor.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Keep out of drains, sewers, ditches and waterways.

**Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Products** Strong acids. Strong bases. Strong oxidizing agents. Reducing agent. Water.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure limits**

Chemical name	ACGIH TLV
Aluminum powder (stabilized) 7429-90-5	TWA: 1 mg/m <sup>3</sup> respirable particulate matter

Chemical name	OSHA PEL
Aluminum powder (stabilized) 7429-90-5	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction

Chemical name	OSHA PEL (vacated)
Aluminum powder (stabilized) 7429-90-5	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction

Chemical name	Ontario TWA EV
Aluminum powder (stabilized) 7429-90-5	TWA: 1 mg/m <sup>3</sup> respirable particulate matter

Chemical name	Mexico OEL (TWA)
Aluminum powder (stabilized) 7429-90-5	TWA/VLE-PPT: 1 mg/m <sup>3</sup> respirable fraction

**Appropriate engineering controls**

**Engineering Measures** In case of insufficient ventilation, wear suitable respiratory equipment. Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Wear safety glasses with side shields (or goggles). Ensure that eyewash stations and safety showers are close to the workstation location. If splashes are likely to occur: Wear suitable face shield.

<b>Skin Protection</b>	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Hand Protection</b>	<p>Chemical resistant protective gloves.            Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding &gt;480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other            Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.            Due to different glove types, the manufacturer's directions for use should be observed.            Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.</p>
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Paste / Gel	<b>Appearance</b>	Colored
<b>Odor</b>	Characteristic	<b>Odor Threshold</b>	No information available
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
pH		No data available	
<b>Melting Point / Freezing Point</b>	No information available	No data available	
<b>Boiling Point / Boiling Range</b>	> 149 °C / 300 °F		
<b>Flash Point</b>	No information available	No data available	
<b>Evaporation rate</b>		No data available	
<b>Flammability Limit in Air</b>			
Upper flammability limit		No data available	
Lower flammability limit		No data available	
<b>Vapor Pressure</b>		No data available	
<b>Vapor Density</b>		No data available	
<b>Specific Gravity</b>	1.76		
<b>Water Solubility</b>		No data available	
<b>Solubility in other solvents</b>		No data available	
<b>Partition coefficient: n-octanol/water</b>		No data available	
<b>Autoignition Temperature</b>	No information available	No data available	
<b>Hyphen</b>		No data available	
<b>Kinematic viscosity</b>		No data available	
<b>Dynamic viscosity</b>		No data available	
<b>Explosive Properties</b>	No data available		
<b>Oxidizing Properties</b>	No data available		
<b><u>Other information</u></b>			
<b>Photochemically Reactive</b>	No		
<b>Weight Per Gallon (lbs/gal)</b>	14.7		

VOC by weight % (less water) 0-1	VOC by volume % (less water) 0-1	VOC lbs/gal (less water) 0-1	VOC grams/liter (less water) 0-1
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## 10. STABILITY AND REACTIVITY

### Reactivity

No information available.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent. Water.

### Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Inhalation**

Specific test data for the substance or mixture is not available.

#### **Eye Contact**

Specific test data for the substance or mixture is not available.

#### **Skin Contact**

Specific test data for the substance or mixture is not available.

#### **Ingestion**

Specific test data for the substance or mixture is not available.

Chemical name	Oral LD50
Surfactant	> 2000 mg/kg ( Rat )

Chemical name	Dermal LD50
Surfactant	> 11300 mg/kg ( Rabbit )

Chemical name	Inhalation LC50
Aluminum powder (stabilized) 7429-90-5	> 0.888 mg/L ( Rat ) 4 h

### Symptoms related to the physical, chemical and toxicological characteristics

#### **Symptoms**

Specific test data for the substance or mixture is not available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Skin corrosion/irritation**

Specific test data for the substance or mixture is not available.

#### **Eye damage/irritation**

Specific test data for the substance or mixture is not available.

#### **Irritation**

Specific test data for the substance or mixture is not available.

#### **Corrosivity**

Specific test data for the substance or mixture is not available.

#### **Sensitization**

Specific test data for the substance or mixture is not available.

#### **Mutagenic Effects**

Specific test data for the substance or mixture is not available.

#### **Carcinogenic effects**

Specific test data for the substance or mixture is not available.

#### **Reproductive Effects**

Specific test data for the substance or mixture is not available.

#### **STOT - single exposure**

Specific test data for the substance or mixture is not available.

#### **STOT - repeated exposure**

Specific test data for the substance or mixture is not available.

#### **Chronic Toxicity**

Specific test data for the substance or mixture is not available.

**Aspiration hazard**  
**Carcinogenicity**

Specific test data for the substance or mixture is not available.  
 This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

#### Numerical measures of toxicity - Product Information

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity  
 mg/kg mg/l

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Specific test data for the substance or mixture is not available. Very toxic to aquatic life. (based on components).

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

#### Persistence and Degradability

No information available.

#### Bioaccumulation

No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste Disposal Methods** Contain and dispose of waste according to local regulations.

**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

**Note:** This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

#### DOT

**UN/ID no** UN1325  
**Proper Shipping Name** Flammable Solids, Organic, N.O.S. (Isomeric Primary Alcohol)  
**Transport hazard class(es)** 4.1  
**Packing Group** III

#### ICAO / IATA / IMDG / IMO

**UN/ID no** UN1325  
**Proper Shipping Name** Flammable Solids, Organic, N.O.S. (Isomeric Primary Alcohol)  
**Transport hazard class(es)** 4.1

Packing Group

III

## 15. REGULATORY INFORMATION

### International Inventories

For further information, please contact: All components are listed on the TSCA Inventory. Supplier (manufacturer/importer/downstream user/distributor).

### U.S. Federal Regulations

#### **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-%	SARA 313 - Threshold Values %
Aluminum powder (stabilized)	7429-90-5	60 - 80	1.0

*Aluminum is reportable under SARA313 ONLY if it is a fume or dust form. Fume or dust refers to dry forms but does not refer to "wet" forms such as use in a solution or slurry.*

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

### US State Regulations

Chemical name	Massachusetts
Aluminum powder (stabilized) 7429-90-5	X

Chemical name	Minnesota Right To Know
Aluminum powder (stabilized) 7429-90-5	X

Chemical name	New Jersey
Aluminum powder (stabilized) 7429-90-5	X

Chemical name	Pennsylvania
Aluminum powder (stabilized) 7429-90-5	X

#### **California Proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

### Canada

Chemical name	NPRI - National Pollutant Release Inventory
Aluminum powder (stabilized) 7429-90-5	Part 1, Group A Substance (dust or fume only)

## 16. OTHER INFORMATION

HMIS	Health hazards	Flammability	Reactivity	Personal Protection
	1	1	1	X

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A1 - Known Human Carcinogen  
A2 - Suspected Human Carcinogen  
A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans  
Group 2A - Probably Carcinogenic to Humans  
Group 2B - Possibly Carcinogenic to Humans  
Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen  
Reasonably Anticipated to be a Human Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Revision Date** Jan-03-2023

**Pursuant to NOM-018-STPS-2015**

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**