

# **SAFETY DATA SHEET**

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# 1. IDENTIFICATION

**Product identifier** 

Product code SIPM591

Product name SIPM591 Aluminum Paste 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

Nazdar Company

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Emergency telephone number

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24 Hour Emergency Phone Number

# 2. HAZARDS IDENTIFICATION

#### Classification

Aspiration hazard Category 1 - (H304)

#### **Label elements**



### Signal word Danger

#### **Hazard statements**

H304 - May be fatal if swallowed and enters airways

#### **Precautionary Statements**

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor P331 - Do NOT induce vomiting

# Hazards not otherwise classified (HNOC)

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### <u>Mixture</u>

Inhalation

Chemical name	CAS No	Weight-%	Trade secret	Note
Aluminum powder (stabilized)	7429-90-5	60 - 80	*	
Petroleum distillates, hydrotreated light	64742-47-8	10 - 30	*	
Solvent naphtha, petroleum, light aromatic	64742-95-6	1 - 5	*	

<sup>\*</sup>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. 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 (CO2). 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

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Use Handling

personal protective equipment as required.

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

Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of Storage

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep

container closed when not in use.

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure limits**

Chemical name	ACGIH TLV
Aluminum powder (stabilized)	TWA: 1 mg/m³ respirable particulate matter
7429-90-5	
Chemical name	OSHA PEL
Aluminum powder (stabilized)	TWA: 15 mg/m³ total dust
7429-90-5	TWA: 5 mg/m³ respirable fraction
Chemical name	OSHA PEL (vacated)
Aluminum powder (stabilized)	TWA: 15 mg/m³ total dust
7429-90-5	TWA: 5 mg/m³ respirable fraction
Chemical name	Ontario TWAEV
Aluminum powder (stabilized)	TWA: 1 mg/m³ respirable particulate matter
7429-90-5	
Chemical name	Mexico OEL (TWA)
	<del></del>

#### **Appropriate engineering controls**

Aluminum powder (stabilized)

7429-90-5

**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

TWA/VLE-PPT: 1 mg/m<sup>3</sup> respirable fraction

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.

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as

appropriate, to prevent skin contact.

**Hand Protection** Chemical resistant protective gloves.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >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.

Respiratory Protection 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.

General Hygiene Considerations 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

Physical statePaste / GelAppearanceSilver

Odor Hydrocarbon-like Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available

Melting Point / Freezing Point No information available No data available

Melting Point / Freezing Point

No information available

Poiling Point / Boiling Range

No information available

99 °C / 210 °F

Flash Point 42 °C / 107 °F Closed cup
Evaporation rate No data available

Flammability Limit in Air

Upper flammability limitNo data availableLower flammability limitNo data availableVapor PressureNo data available

Vapor PressureNo data availableVapor DensityNo data available

Specific Gravity 1.57

Water SolubilityNo data availableSolubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data available

Partition coefficient: n-octanol/water

No data available

Autoignition Temperature

No information available

No data available

Hyphen No data available

Kinematic viscosity

No data available

Dynamic viscosity

No data available

Explosive Properties No data available
Oxidizing Properties No data available

Other information

Photochemically Reactive No Weight Per Gallon (lbs/gal) 13.08

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter	
(less water)	(less water)	(less water)	(less water)	
28	No information available	3.67	439.3	

# 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 (CO2).

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

InhalationSpecific test data for the substance or mixture is not available.Eye ContactSpecific test data for the substance or mixture is not available.Skin ContactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Chemical name	Oral LD50
Petroleum distillates, hydrotreated light	> 5000 mg/kg ( Rat )
64742-47-8	
Solvent naphtha, petroleum, light aromatic	= 8400 mg/kg ( Rat )
64742-95-6	

Chemical name	Dermal LD50
Petroleum distillates, hydrotreated light	> 2000 mg/kg ( Rabbit )
64742-47-8	
Solvent naphtha, petroleum, light aromatic	> 2000 mg/kg(Rabbit)
64742-95-6	

Chemical name	Inhalation LC50
Aluminum powder (stabilized)	> 0.888 mg/L (Rat) 4 h
7429-90-5	
Petroleum distillates, hydrotreated light	> 5.2 mg/L (Rat) 4 h
64742-47-8	
Solvent naphtha, petroleum, light aromatic	= 3400 ppm (Rat) 4 h
64742-95-6	

#### 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/irritationSpecific test data for the substance or mixture is not available.Eye damage/irritationSpecific test data for the substance or mixture is not available.IrritationSpecific test data for the substance or mixture is not available.CorrosivitySpecific test data for the substance or mixture is not available.SensitizationSpecific test data for the substance or mixture is not available.Mutagenic EffectsSpecific test data for the substance or mixture is not available.Carcinogenic effectsSpecific 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. Specific test data for the substance or mixture is not available **Chronic Toxicity** 

Specific test data for the substance or mixture is not available. May be fatal if swallowed and **Aspiration hazard** 

enters airways. (based on components).

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, Carcinogenicity

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.

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

Chemical name	Fish
Petroleum distillates, hydrotreated light	96h LC50 Pimephales promelas: = 45 mg/L (flow-through)
64742-47-8	96h LC50 Lepomis macrochirus: = 2.2 mg/L (static)
	96h LC50 Oncorhynchus mykiss: = 2.4 mg/L (static)
Solvent naphtha, petroleum, light aromatic	96h LC50 Oncorhynchus mykiss: = 9.22 mg/L
64742-95-6	

Chemical name	Crustacea
Solvent naphtha, petroleum, light aromatic	48h EC50 Daphnia magna: = 6.14 mg/L
64742-95-6	1

#### 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.

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

disposal.

# 14. TRANSPORT INFORMATION

This information is not intended to convey all specific transportation requirements relating to Note:

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. (Aliphatic Solvent Naphtha Petroleum)

Transport hazard class(es) 4.
Packing Group

ICAO / IATA / IMDG / IMO

UN/ID no UN1325

Proper Shipping Name Flammable Solids, Organic, N.O.S. (Aliphatic Solvent Naphtha Petroleum)

Transport hazard class(es) 4.7
Packing Group

# 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)	X	
7429-90-5		
Chemical name	Minnesota	
	Right To Know	
Aluminum powder (stabilized)	X	
7429-90-5		
Chemical name	New Jersey	
Aluminum powder (stabilized)	X	
7429-90-5		
Chamical name	Donnavlvenia	
Chemical name	Pennsylvania	
Aluminum powder (stabilized)	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**

7429-90-5

Chemical name	NPRI - National Pollutant Release Inventory

Aluminum powder (stabilized) 7429-90-5	Part 1, Group A Substance (dust or fume only)
Petroleum distillates, hydrotreated light 64742-47-8	Part 5, Other Groups and Mixtures
Solvent naphtha, petroleum, light aromatic 64742-95-6	Part 5, Other Groups and Mixtures

#### **16. OTHER INFORMATION**

HMIS Health hazards Flammability Reactivity Personal Protection 2 \* 2 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**