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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 31372 HI TEMP ALUMINUM REPAIR COMPOUND PART 1
Item No: PTX209717C
Product Type: Filler

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
ALUMINIUM POWDER 7429-90-5	<100	10 mg/m ³ TWA (metal dust) ACGIH	15 mg/m ³ TWA (total dust), 5 mg/m ³ TWA (respirable)

3. HAZARDS IDENTIFICATION

Toxicity: Exposure to vapors or mist may result in irritation of the respiratory tract. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. May cause eye and skin irritation.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation.

Signs and Symptoms of Exposure: Contact with eyes may cause tearing and redness. Ingestion may cause nausea and vomiting. Overexposure may cause nasal irritation. Skin redness.

Medical Conditions Recognized as Being Aggravated by Exposure: Persons with respiratory problems such as emphysema and asthma should avoid inhalation.

4. FIRST AID MEASURES

Ingestion: Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

Inhalation: Move to fresh air in case of accidental inhalation of vapors.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wipe off paste with paper towel or cloth.

Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C): 470°F Method: Closed Cup

Recommended Extinguishing Media: Carbon dioxide, Alcohol foam dry chemical

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus.

Hazardous Products Formed by Fire or Thermal Decomposition: Carbon monoxide, Carbon dioxide, Oxides of nitrogen

Unusual Fire/Explosion Hazards: None

Lower Explosive Limit: Not determined.

Upper Explosive Limit: Not determined.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Reclaim clean material. Contaminated material should be swept or shoveled into appropriate waste container for proper disposal.

7. HANDLING AND STORAGE

Storage: Store at temperatures between 45 and 95 degrees F..

Handling: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product. Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.

Skin: Rubber or plastic gloves.

Ventilation: Provide adequate ventilation

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray powder
Odor:	NO ODOR
Boiling Point (°F):	Does not apply
pH:	Does not apply
Solubility in Water:	Complete
Specific Gravity:	1.8
VOC Content(Wt.%):	<1 gm/l
Vapor Pressure:	None
Vapor Density (Air=1):	Does not apply
Evaporation Rate:	<1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability:	STABLE
Hazardous Polymerization:	WILL NOT OCCUR
Incompatibilities:	Strong oxidizers.
Conditions to Avoid:	Water.
Hazardous Products Formed by Fire or Thermal Decomposition:	Carbon monoxide. Carbon dioxide,. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.

US EPA Waste Number: D001 as per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Domestic Ground Transport

DOT Shipping Name:	Unrestricted
Hazard Class:	None
UN/ID Number:	None
Marine Pollutant:	None

IATA

Proper Shipping Name:	Unrestricted
Class or Division:	None
UN/NA Number:	None

IMDG

Proper Shipping:	Unrestricted
Hazard Class:	None
UN Number:	None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

SARA 313 Information
ALUMINUM

CALIFORNIA PROP 65:
No California Prop 65 chemicals are known to be present.

TSCA Inventory Status:
Listed on Inventory: YES All components of this product are listed (or exempt) on the EPA TSCA inventory.

Product name: 31372 HI TEMP ALUMINUM REPAIR
COMPOUND PART 1

Item PTX209717C

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 1, REACTIVITY 0

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

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Revision 1
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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 31372 HI TEMP ALUMINUM REPAIR COMPOUND PART 2
Item No: PTX209718C
Product Type: Water-based silicate resin

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
DISODIUM METASILICATE 6834-92-0	>25	Not Listed	Not Listed
Water 7732-18-5	<75	Not Listed	Not Listed

3. HAZARDS IDENTIFICATION

Toxicity: Exposure to vapors or mist may result in irritation of the respiratory tract. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. May cause eye and skin irritation.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation.

Signs and Symptoms of Exposure: Contact with eyes may cause tearing and redness. Ingestion may cause nausea and vomiting. May cause skin irritation. Overexposure may cause nasal irritation. Skin: Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying, cracking and skin burns. Preexisting skin disorders may be aggravated by exposure. Skin absorption is possible, but harmful effects are not expected from this route under normal conditions of handling and use.

Medical Conditions Recognized as Being Aggravated by Exposure: Persons with respiratory problems such as emphysema and asthma should avoid inhalation. Preexisting skin disorders.

4. FIRST AID MEASURES

Ingestion: Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

Inhalation: Move to fresh air in case of accidental inhalation of vapors. Oxygen or artificial respiration if needed. Obtain medical attention.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Obtain medical attention.

Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C): None

Recommended Extinguishing Media: None - does not burn.

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus.

Hazardous Products Formed by Fire or Thermal Decomposition: Aluminum oxide and aluminum nitride.

Unusual Fire/Explosion Hazards: Not considered a fire hazard and does not support combustion. When involved in a fire, does not contribute any unusual hazards. Do not use water, halogenated agents, or ABC dry chemical agents as extinguishing agents.

Lower Explosive Limit: Not determined.

Upper Explosive Limit: Not determined.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

7. HANDLING AND STORAGE

Storage: No special precautions..

Handling: Avoid contact with skin and eyes. Do not inhale vapors.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Safety glasses.
Skin: Rubber or plastic gloves.
Ventilation: Provide adequate ventilation
Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
Odor: SLIGHT
Boiling Point (°F): 210 degrees F.
pH: 10.0-12.5
Solubility in Water: Complete
Specific Gravity: 1.4
VOC Content(Wt.%): None
Vapor Pressure: 17.0 mm Hg
Vapor Density (Air=1): 0.6
Evaporation Rate: <1.0 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE
Hazardous Polymerization: WILL NOT OCCUR
Incompatibilities: Metals such as aluminum, tin, lead and zinc in an alkaline environment.
Strong oxidizers, acids, alkalines
Conditions to Avoid: Heat
Hazardous Products Formed by Fire or Thermal Decomposition: Aluminum oxide and aluminum nitride..

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.
US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Domestic Ground Transport

DOT Shipping Name: Unrestricted
Hazard Class: None
UN/ID Number: None
Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted
Class or Division: None
UN/NA Number: None

IMDG

Proper Shipping: Unrestricted
Hazard Class: None
UN Number: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

Product name: 31372 HI TEMP ALUMINUM REPAIR
COMPOUND PART 2

Item PTX209718C

SARA 313 Information

NONE

CALIFORNIA PROP 65:

No California Prop 65 chemicals are known to be present.

TSCA Inventory Status:

Listed on Inventory: **YES** All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 0, REACTIVITY 1

Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0

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