



# MATERIAL SAFETY DATA SHEET

## JP™ ZICRON 1400°C

DOCUMENT NO: JP/0222/1232

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: JP™ ZICRON 1400°C  
Product Type: Water-based inorganic composite adhesive  
Company Address: JP Consultancy & Engineering Sdn. Bhd.,  
No. 41, Jalan Anggerik Mokara 31/64,  
Kawasan Industri Kota Kemuning,  
40460 Shah Alam, Selangor D.E. Malaysia.  
Tel: +60351316514

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Ingredient</i>	<i>CAS Number</i>	<i>% Exposure Limits</i>
Alumina Sol	20-40	Not established
Silica Sol	20-40	Not established
Modified Aluminum Oxide	30-60	Not established
Additive (Proprietary)	5-10	Not established

### 3. HAZARDS IDENTIFICATION

Emergency Overview: White, odorless, thick paste. Causes moderate eye, skin, and digestive tract irritation. Spray mist causes irritation to respiratory tract. Due to high pH of product, release into surface water is harmful to aquatic life. Non-combustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.

Eye contact: Causes moderate irritation to the eyes.  
Skin contact: Causes moderate irritation to the skin.  
Inhalation: Spray mist irritating to respiratory system.  
Ingestion: May cause irritation to mouth, esophagus, and stomach.  
Chronic hazards: No known chronic hazards. Not listed as a carcinogen.

### 4. FIRST AID MEASURES

Eye: In case of contact, immediately flush eyes with plenty of water. Get medical attention.  
Skin: In case of contact flush skin with plenty of water. Remove contaminated clothing and shoes.  
Inhalation: Remove to fresh air. Get medical attention.  
Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention immediately.

### 5. FIRE FIGHTING MEASURES

THE PRODUCT IS NON-FLAMMABLE

### 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with skin and eyes.  
Spillages can cause slippery situations.  
Collect as much as possible in a (clean) container or by absorbent material.  
Remove last traces by diluting with plenty of (warm) water.



## 7. HANDLING AND STORAGE

Handling: Avoid contact with the concentrated product. The product is sticky.  
Storage: Keep packaging / storage vessel closed. Protect from freezing. Keep away from acids.  
Compatible materials: (Stainless) steel  
Incompatible materials: Zinc, Tin, Aluminum, Copper and their alloys

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures / system design: NA  
Respiratory protection: Not required, but in the eventual risk of spray, prevent breathing of the spray  
Hand protection: Wear alkaline resistant gloves  
Eye protection: Wear suitable goggles  
Skin protection: Wear suitable protective clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Thick white Paste  
Color: Hazy white  
Odor: Odorless or musty odor  
pH: Approximately 10 - 11  
Specific gravity: 2.1 – 2.2 g/cc  
Solubility in water: Partly Miscible

## 10. STABILITY AND REACTIVITY

Stability: This material is stable under all conditions of use and storage.  
Conditions to avoid: None.  
Materials to avoid: Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.  
Hazardous decomposition products: Hydrogen.

## 11. TOXICOLOGICAL INFORMATION

When tested for eye and skin irritation potential, a similar material caused moderate irritation to the eyes and moderate irritation to the skin. The acute oral toxicity of this product has not been tested.

## 12. ECOLOGICAL INFORMATION

This material is not persistent in aquatic systems, but its high pH when undiluted or un-neutralized is acutely harmful to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

Disposed material is not a hazardous waste.  
Recommended Method of Disposal: Dispose according to central and local governmental regulations.

## 14. TRANSPORTATION INFORMATION

This material is not regulated hazardous material for transportation.

## 15. REGULATORY INFORMATION

Hazard Symbols: None  
R-phrases: None  
S-phrases: None

## 16. OTHER INFORMATIONS

The product is meant for industrial use.

**Note:** The information's given in this bulletin is believed to be reliable. However, the conditions under which our product may be used are beyond our control. Hence, the products are sold with the understanding that purchaser will make their own tests to determine the suitability of the product for their particular use.