

# MSDS For Lithium Silicon Alloy

## 1. Product Identification

|               |                 |
|---------------|-----------------|
| Product name: | lithium silicon |
| CAS No.:      | 68848-64-6      |
| 分子式:          | Li+Si           |

## 2. Composition/Information on Ingredients

| Ingredient | content | CAS No.    |
|------------|---------|------------|
| LiSi       | 100     | 68848-64-6 |

## 3. Hazards Identification

|                                  |  |
|----------------------------------|--|
| Dangerous class:                 | No 4. 3  |
| Invasion way:                    | Inhalation ;Ingestion  |
| <b>Potential Health Effects:</b> | Harfulness. Have irritative action. By now, have not reported for the industrial poisoning |
| Environment effects:             | No   |
| Blast effects:                   | The inflammable torch the water, irritative action.  |

## 4. First Aid Measures

|                      |   |
|----------------------|---|
| <b>Skin Contact:</b> | Wipe off excess material from skin then immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention immediately |
| <b>Eye Contact:</b>  | Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.                   |
| <b>Inhalation:</b>   | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.                          |
| <b>Ingestion:</b>    | Drink much warm water and Induce vomiting immediately. Get medical attention immediately.   |

## 5. Fire Fighting Measures

|                      |  |
|----------------------|--|
| Dangerous parameter: | If touch high heating, fire,the powder would kindle. If touch the acid , would give out the SiH gas which would kindle. If touch |
|----------------------|--|

|                     |  |
|---------------------|--|
|                     | water, would give out the H <sub>2</sub> gas which would kindle. |
| harmful products:   | Li <sub>2</sub> O, SiO <sub>2</sub> .                            |
| Extinguishing way:  | The fireman should wear box respirator, dress generalization.    |
| Extinguishing agent | Dry powder, CO <sub>2</sub> , Sandy clay. Forbid water and foam. |

## 6. Accidental Release Measures

|           |  |
|-----------|--|
| Measures: | Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 5. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not touch water. Do not flush to the sewer. US Regulations (CERCLA) require reporting spills and releases to soil, |
|-----------|--|

## 7. Handling and Storage

|                            |   |
|----------------------------|---|
| Handling attention matter: | Wear special protective equipment (Sec. 5), avoid fire, high heating, especial for water, use the explosion protection system machine, avoid bring out dust. Provide the right extinguisher and Accidental Release machine. |
| Store attention matter:    | stored in a cool, dry, ventilated area, far away fire, high heating, and avoid the sunshine. Packing should seal, avoid wet condition.  |

## 8. Exposure Controls/Personal Protection

|                             |   |
|-----------------------------|---|
| OSHA Threshold Limit Value: | China MAC: no standard;<br>USA TLV—TWA: no standard.  |
| Monitoring methode:         | No  |
| engineering control:        | Cloeness operation. local Ventilation   |
| Personal Respirators:       | If the exposure limit is exceeded and engineering controls are not feasible, a half-face high efficiency particulate respirator (NIOSH type N100 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, |
| Eye Protection:             | Use chemical safety goggles. Maintain eye wash fountain and   |

|                                |  |
|--------------------------------|--|
|                                | quick-drench facilities in work area.              |
| Body protection:               | Wear clean body-covering clothing.                 |
| <b>Skin Protection:</b>        | Wear protective gloves.                            |
| <b>Other Control Measures:</b> | The working place forbid smoking, drink and Eating |

## 9. Physical and Chemical Properties

|                                    |                          |
|------------------------------------|--------------------------|
| Main Composition:                  |                          |
| Appearance:                        | Black crystals or powder |
| pH:                                |                          |
| <b>Melting Point (°C):</b>         | No information found     |
| <b>Boiling Point (°C):</b>         | No information found     |
| <b>Density (water=1):</b>          | No information found     |
| <b>Vapor Density (Air=1):</b>      | No information found     |
| <b>Evaporation Rate (BuAc=1)</b>   | No information found     |
| Flash Point (°C):                  | No information found     |
| Autoignition Temperature (°C):     | No information found     |
| Explosion Limits, upper<br>%(V/V): | No information found     |
| Explosion Limits, lower<br>%(V/V): | No information found     |

## 10. Stability and Reactivity

|                                  |   |
|----------------------------------|---|
| Stability:                       | Stable under ordinary conditions of use and storage |
| <b>Incompatibilities:</b>        | Strong oxidant, water, acid                         |
| <b>Hazardous Polymerization:</b> | Will not occur                                      |
| Decomposition products:          | Li <sub>2</sub> O, SiO                              |

## 11. Toxicological Information

|                     |                      |
|---------------------|----------------------|
| Toxicological Data: | LD50: No; LC50: No   |
| Chronic toxicity:   | No information found |
| Irritating:         | No information found |
| Sensitization:      | No information found |
| mutability:         | No information found |
| Teratogenicity:     | No information found |
| carcinogenicity:    | No information found |

## 12. Ecological Information

|                                |                      |
|--------------------------------|----------------------|
| <b>Environmental Fate:</b>     | No information found |
| <b>Environmental Toxicity:</b> | No information found |

## 13. Disposal Considerations

|                       |   |
|-----------------------|---|
| Waste characteristic: |   |
| Waste deal methode:   | If the quantity is only a little, the waste can solute in water or acid. And use the sulphide to precipitate, adjust the pH to7 finish the precipitate. Filte the precipitate and buried. |
| Remark:               |   |

## 14. Transport Information

|                             |   |
|-----------------------------|---|
| The danger No:              | 43027   |
| UN No:                      | 1417  |
| Packing standard:           |   |
| Packing type:               | II  |
| Packing methode:            | Glass bottle、 plastic bottle or metal drum (can) and outside normal wood box. |
| Transport attention matter: | Avoid high heating, water, acid and fire; protect the packing do not broken   |
| RETCS No:                   |   |
| IMDG:                       |   |

## 15. Regulatory Information

|  |                       |
|--|-----------------------|
| China chemical safety management regulation:         | The product is No 4.3 |
| International chemical safety management regulation: |                       |

## 16. Other Information

|                        |                            |
|------------------------|----------------------------|
| Date of filling:       | 2007 year 05 month 18 date |
| Department of filling: | Technology dep             |
| Maker:                 | Ekain                      |