

# SAFETY DATA SHEET (SDS)

ISSUED DATE: 20 Nov. 2012

REVISION DATE: 21 Apr. 2025

## 1. Product Name and Corporate Information

Product name : ALPOLIC™/fr SCM (Stainless steel Composite Material with fire-retardant core)

Name of manufacture : Mitsubishi Chemical Infratec Co., Ltd.

Address : 1-1-1, Marunouchi, Chiyoda-ku, Tokyo 100-8251 Japan

Name of division : ALPOLIC Business Unit

Responsible department : Global Management Department

Phone number : +81-3-6748-7348

E-mail : info@alpolic.jp

Emergency phone number : +81-3-6748-7348

SDS No. : ELL76-0003

Recommended use : Multifunctional material  
(For the details, please confirm our Sales Department)

Restriction on use : Without recommended use

## 2. Hazardous Identification

GHS classification : Not applicable to hazardous classification

GHS label elements : Not applicable

Symbols : Not applicable

Signal word : Not applicable

Hazard statements : Not applicable

Precautionary statements : Not applicable

Hazard not to applicable to the GHS classification : Wear appropriate protective equipment.  
-Particles involved in mechanical processing may irritate mucosal of respiration apparatus, eyes, mouth, nose, and etc.  
-The edges or corners of the material may cut person's body.  
-A heated product may cause a burn injury.

## 3. Composition / Information on Ingredients

Substance / Mixture : Other (Article)

Chemical name or common name : Stainless steel Composite Material

| No. | Ingredients      | CAS RN®      |
|-----|------------------|--------------|
| 1   | Stainless steel  | -            |
| 2   | Polyethylene     | 9002-88-4    |
| 3   | Inorganic filler | Not released |
| 4   | Coating          | Not released |

\*Components less than 0.1 wt% are not shown in the above.

\*In some cases, the coating may be necessary.

\*The stainless steel contains the following element.

But components less than 0.1 wt% are not shown in the following.

These data refer to supplier documents.

| No. | Ingredients | CAS RN®   | Content      |
|-----|-------------|-----------|--------------|
| 1-1 | Ni          | 7440-02-0 | max.14.0%    |
| 1-2 | Cr          | 7440-47-3 | max.23.0%    |
| 1-3 | Mo          | 7439-98-7 | max.3.0%     |
| 1-4 | Mn          | 7439-96-5 | max.2.0%     |
| 1-5 | Si          | 7440-21-3 | max.1.0%     |
| 1-6 | C           | 7440-44-0 | max.0.12%    |
| 1-7 | Nb+Ti       | -         | min.16(C+N)% |

Identification in accordance with UN: Not defined in identifications in UN

Other : Not applicable to the GHS classification for "Article", but listed it about chemical substance.

#### 4. First-Aid Measures

- Inhalation : When having inhaled a large quantity of powder and/or particle during mechanical processing of the product, move to fresh air, to ensure rest and keep warm, and get medical attention immediately.
- Skin contact : In case of slight burns due to heated product, flush out affected part with large amount of water immediately, to cool down the affected part. In case of serious burns, get medical check immediately.
- Eye contact : When eyes are hurt with particle and/or powder during mechanical processing of the product, rinse affected eyes with clean running water. If irritation is persistent afterwards, get ophthalmic check immediately.
- Ingestion : When having ingested a large quantity of powder and/or particles during mechanical processing of the product, get medical check immediately.

#### 5. Fire-Fighting Measures

- Suitable extinguishing media : Water, carbon dioxide, dry-chemical powder and foam fire extinguisher.
- Unsuitable extinguishing media : No Information
- Specific extinguishing methods : In case of occurrence of fire near by the product, cover the products with incombustible sheet or dry sand, to prevent from fire spread to the products.  
If the product is ignited, it is effective for initial extinguishing to dash water. Fire fighting shall be done from the lower portion of the products, and then to upper portion. Fire fighting shall be done from windward side with wearing air-breathing apparatus.

#### 6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures : Not applicable.  
Generally, the product is unlikely to spill out accidentally, because of solid nature.
- Environmental precautions : Same as above.
- Methods and material for containment and cleaning up : Same as above.

#### 7. Handling and Storage

- Handling : Because you may be injured at the edges or corners of the product, wear gloves, working clothes and safety shoes.  
When you work on piling over again and peeling protection film from the product, you do not handle it in flammable atmosphere because static electricity (spark) is generated.  
When you handle the product at the time of a strong wind outside, you may lose the balance or it may be blown off.  
Because there is the heavy product depending on product brands or dimensions, you must be careful about low back pain and the dropping of it.
- Storage : Store horizontally where the products can be piled up without deflection. Do not wet the product with rain. Keep it away from such chemicals as acid, alkali, strong oxidizer and chlorides, organic solvents, spark and fire.

## 8. Exposure Controls / Personal Protection

|                               |  |
|-------------------------------|--|
| Permissible content           | : In a usual state, there is no at present useful information.   |
| Personal protective equipment |  |
| Respiratory protection        | : When particle and small chips exist in certain range, wear respirator.                                 |
| Hands protection              | : Wear gloves to protect hands from scratch and cut with panel edges.                                    |
| Eye protection                | : When operators are exposed to particles and small chips, wear protection glasses during the operation. |
| Skin and body protection      | : Wear working clothes and safety shoes.   |
| Notes                         | :  |
| Other                         | : Under normal handling conditions, there is usually no possibility of the exposure in the product.      |

## 9. Physical and Chemical Properties

|  |   |
|--|---|
| Appearance (State of matter, Shape, Color, and etc.) |   |
| State of matter                                      | : Solid   |
| Shape  | : Panel of 3 to 5 mm thick  |
| Color  | : The painting is made on top and bottom side for the purpose of protection and coloration.               |
| Smell  | : None  |
| Melting / Freezing point                             | : No Information  |
| Initial boiling point and boiling range              | : No Information  |
| Flash point  | : No Information  |
| Flammability (solid)                                 | : No Information  |
| Specific gravity                                     | : Approx. 7.6 to 8.3g/cm <sup>3</sup> in stainless steel<br>0.90 to 0.97g/cm <sup>3</sup> in polyethylene |
| Solubility   | : Insoluble in water  |
| Auto-ignition temperature                            | : No Information  |
| Decomposition temperature                            | : No Information  |

## 10. Stability and Reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : Not reaction at normal temperature under normal pressure. |
| Chemical stability                 | : Stable under normal handling condition.                   |
| Possibility of hazardous reactions | : No Information  |
| Condition to avoid                 | : No Information  |
| Incompatible materials             | : No Information  |
| Hazardous decomposition products   | : No Information  |

## 11. Toxicological Information

### Hazardous property to health

|  | Ni                               | Cr   | Mo   |
|--|----------------------------------|--|--|
| Damage and stimulus property to eyes                   | Not identified                   | 2B   | Not identified                             |
| Respiration sensitization                              | 1                                | 1  | Not identified                             |
| Skin sensitization                                     | 1                                | 1  | Not identified                             |
| Influence on germ cell                                 | Not identified                   | 2  | Not identified                             |
| Carcinogenicity  | 2                                | Outside of division  | Not identified                             |
| Toxicity to specific internal organs (single exposure) | 1 (Organ of respiration, kidney) | 2 (Toxicity to whole body)<br>3 (Stimulus property to respiratory tract) | 3 (Stimulus property to respiratory tract) |
| (repeated exposure)                                    | 1 (Organ of respiration)         | Not identified   | Not identified                             |

Industrial Safety and Health Law Appended Table 9 (rev August 2006)

## 12. Ecological Information

### Hazardous property to environment

|   | Ni | Cr             | Mo             |
|---|----|----------------|----------------|
| Chronic hazardous property to aquatic environment | 4  | Not identified | Not identified |

Industrial Safety and Health Law Appended Table 9 (rev August 2006)

### 13. Disposal Considerations

In accordance with official regulations for waste disposal, dispose by incineration or reclamation as factory waste.

### 14. Transport Information

International rule : Not applicable in the United Nations Recommendations on the Transport of Dangerous Goods.  
UN Number: -

Other : The product is packed in wooden crate for transportation. During transportation, please prevent the product from being wet.

### 15. Regulatory Information

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

### 16. Other Information

#### References cited

[1] This SDS based on the SDS of raw materials to contain.

#### Department issuing SDS

Name of Manufacture : Mitsubishi Chemical Infratec Co., Ltd.

#### Other

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