

SAFETY DATA SHEET (SDS)

ISSUED DATE: 20 Nov. 2012

REVISION DATE: 21 Apr. 2025

1. Product Name and Corporate Information

Product name : ALPOLIC™/fr RF (Reflective Finish Aluminum 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. : ELL76-0015

Recommended use : Interior material

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 : Aluminum Composite Material

No.	Ingredients	CAS RN®
1	Aluminum	7429-90-5
2	Polyethylene	9002-88-4
3	Inorganic filler	Not released
4	Coating on the reverse side	Not released
5	Protective film	Not released

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

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	: Normally, control is not required. But, when a large quantity of powder and particles are likely to occur due to mechanical processing of the product, apply the following standards as a reference value.		
Japan Society of Occupational Health			
Ingredient	: Aluminum particle		
	Inhalable dust	0.5 mg/m3	Recommendation of Occupational Exposure Limits, 2018 Edition
	Total dust	2 mg/m3	
ACGIH			
Ingredient	: Aluminum metal and insoluble compound		
	TLV-TWA* 1 mg/m3	Respiratory fraction	ACGIH, 2015 Edition
	* TWA (Time Weighted Average)		
	Unless special remark is indicated, long term work consisting of 8hrs per day and 5 days per week is available under the above condition.		
Facility measures	: When the particle content cannot be maintained within the permissible range, provide such a suitable facility as partial ventilation.		
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 3mm thick
Color	: The top surface is an anodized reflective finish and a service coating is applied on the reverse side.
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	: 2.7g/cm ³ in aluminum 0.90 to 0.97g/cm ³ 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

No Information

12. Ecological Information

Eco-toxicity	: No Information
Persistence and degradability	: No Information
Bioaccumulative potential	: No Information
Mobility in soil	: No Information
Hazardous to the ozone Layer	: No Information

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

The information contained herein is based on data currently considered accurate. No warranty, however, is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Mitsubishi Chemical Infratec Co., Ltd. and any associated companies assume no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with use of the material.
