

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade Names**

PVC Film

**Manufacture/Supplier**

Company Name: RIKEN TECHNOS CORP.  
Address: 2058, Oka, Fukaya City, Saitama Pref.  
369-0295 JAPAN  
Telephone No.: +81-48-585-2533  
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### 2. HAZARDS IDENTIFICATION

2.1 Not applicable.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical Description: PVC foil.(Composition of Polyvinylchloride)  
3.2 Dangerous Components: None.

### 4. FIRST AID MEASURES

4.1 General indications: Normally needed only for thermal burns and following inhalation of smoke from burning material. Treat in the same way as other

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- thermal burns and smoke inhalation.
- 4.2 Inhalation: Supply fresh air; consult doctor in case of symptoms.
- 4.3 Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 4.4 Skin contact: Molten material can cause severe burns. Do not try to peel molten polymer from the skin. Cool rapidly with water. Obtain immediate medical attention.
- 4.5 Ingestion: Unlikely to be required, but if necessary treat symptomatically.

### **5. FIRE FIGHTING MEASURES**

- 5.1 General: Persistent application of a flame will ignite the material. Melting or dripping which may cause the fire to spread accompanies burning. Combustion will evolve carbon dioxide, hydrochloric gas, water vapor. If the burning material cannot get enough air, release of carbon monoxide, soot and other gases and vapors is possible.
- 5.2 Extinguishing media: Water spray, carbon dioxide, foaming agents, and powders.
- 5.3 Unsuitable extinguishing media: Not available.
- 5.4 Fire fighting instructions: Wear self-contained breathing apparatus, fireproof suit and complete facial protection.

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### **6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Individual precautions: Not applicable.
- 6.2 Environmental precautions: Not applicable.
- 6.3 Cleaning methods: Scrap film generated through processing, e.g., slitting / shredding, should be swept up and disposed according with local regulation.

### **7. HANDLING AND STORAGE**

- 7.1 Handling: The sharp edge of film can easily cause cuts.
- 7.2 Process hazard static: The passage of film through and over metal or other rollers, may generated surface electrical charges which can be a source of ignition for flammable vapors and gases. Static discharge devices should be properly positioned so that to eliminate the electrostatic charge.
- 7.3 Storage: Keep away from heat and sources of ignition. Exposure to extremes of heat and cold should be avoided. Avoided extremes of humidity.

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### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- 8.1 Exposure limit values: Specific exposure limits have not been established.
- 8.2 Environmental exposure controls: Respect the given safety legislation, and use the product in accordance with the supplier's instructions, as detailed in point 7.1.
- 8.3 Personal protection
- 8.3.1 Respiratory protection: Not necessary for normal use of the product.
- 8.3.2 Hand protection: Use appropriate protective gloves to avoid cuts from sharp edges of high thickness films.
- 8.3.3 Eye protection: Use protective glasses to protect the eyes when using the material in cold processes (e.g., cutting, stamping, grinding).
- 8.3.4 Skin protection: Use appropriate work / protective garments.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1 Appearance: Foil.
- 9.2 Odor: Odorless under normal conditions, melt material has a specific odor known as plastic.
- 9.3 pH: Not available.
- 9.4 Melting point/Melting range: Not determined.
- 9.5 Decomposition Temperature: Not available.

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9.6 Flash point:	Not available.
9.7 Auto ignition temperature:	Not available.
9.8 Specific Gravity:	1.25-1.45(g/cm <sup>3</sup> )
9.9 Solubility in water:	Insoluble.

### 10. STABILITY AND REACTIVITY

10.1 Conditions to avoid:	Thermal degradation by overheating (see Section 7.).
10.2 Stability:	Normally stable
10.3 Materials to avoid:	Trend to dissolve in caustic materials.
10.4 Hazardous reactions / Decomposition products:	Thermal decomposition products may include hydrochloric gas, CO, CO <sub>2</sub> and other C, H, O and Cl compounds varying in chemical structure and molecular weights.

### 11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity	
11.1.1 Inhalation:	Combustion product may be irritant.
11.1.2 Eye irritation:	No irritant effect.
11.1.3 Skin irritation:	No evidence of irritant effect from normal handling and use. Sharp edges may cause cuts.
11.1.4 Ingestion:	Not available.
11.1.5 Sensitization:	No sensitizing effect known.

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- 11.2 Carcinogenic properties: To date, there are no known carcinogenic effects from correct use of the product.
- 11.3 Mutagenesis: To date, there are no known mutagenic effects from correct use of the product.
- 11.4 Teratogenous effects: To date, there are no known teratogenous effects from correct use of the product.
- 11.5 Narcotic properties: None.

### **12. ECOLOGICAL INFORMATION**

- 12.1 Ecotoxicity: Not available.
- 12.2 Mobility: Not available.
- 12.3 Persistence and degradability: Not available.
- 12.4 Bioaccumulation potential: Not available.
- 12.5 Observations: Will slowly degrade with exposure to UV light. Adverse effects would not be expected.

### **13. DISPOSAL CONSIDERATIONS**

PVC film is a non-hazardous solid waste material. The product can be land filled. It will remain virtually unchanged when buried for long periods. Dispose or incinerate in accordance with local regulations. Do not dump this product into sewers, on the ground or into any body of water.

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### **14. TRANSPORT INFORMATIONS**

- 14.1 General information: As such, the product is not subject to any international transportation regulations.
- 14.2 Road and rail transportation: Not hazardous.
- 14.3 Maritime transportation: Not hazardous.
- 14.4 Air transportation: Not hazardous.

### **15. REGULATORY INFORMATION**

- 15.1 General information: As such, the product is not classified as hazardous by the EC Directive.
- 15.2 Symbol of danger: Not applicable.

Please refer to any other EU, national and local regulations.

### **16. OTHER INFORMATION**

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of RIKEN TECHNOS CORP. It relates only to the specific product designated herein, and does not relate to use in combination with any other material or in any process. RIKEN TECHNOS CORP. assumes no legal responsibility for use of or reliance upon this information.

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### **MSDS RECEIPT ACKNOWLEDGEMENT**

I hereby acknowledge that I have been provided with a copy of the RIKEN TECHNOS CORP. MATERIAL SAFETY DATA SHEET for PVC Film . dated March 9, 2016

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Signed \_\_\_\_\_ Dated \_\_\_\_\_