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Issue Date:
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MATERIAL SAFETY DATA SHEET

Product Name: DRP® Reflectors 0.5mmt

Identity Information

Uniform/Composite: Uniform

Ingredients : Polyethylene tetrafluoride (polytetrafluoroethylene ; PTFE)
100%

Chemical formula: - (CF₂ - CF₂)_n -

LERMCS No.: 6-939

CAS No. 9002-84-0

Hazard/Toxicity

Class : N/A

Hazard : None at normal temperatures

Toxicity: None, because PTFE does not have physiological activity. However, toxic gases (HF, COF₂, CO, CF₂=CF₂, etc.) are released when heated to high temperature. Generally, obvious decomposition starts at 260 DegC or above, but the gas emission is very low at or below 315 DegC. Once the temperature reaches about 400 DegC, the quantity of gas decomposition increases, thus increasing the toxicity.

First Aid Procedures

Inhalation : If decomposition gas is inhaled, move individual to fresh air, and consult a physician.

Ingestion : If ingested in large quantity, consult a physician for treatment.
The material is inactive foreign matter to the body.

Note to the physician : Inhalation of fume generated from decomposed PTFE leads to temporal symptoms similar to influenza, called "polymer fume fever". The symptoms include headache, articular pains, general discomfort, fever, cough, chilliness, palpitation, breast discomfort.

Health Hazard Data

Ingestion: Inactive when orally administered to rats.

Eye: Gives only physical stimulation.

Skin contact: No possibility of irritating human skin

Entry from skin: No possibility of absorption through human skin

Inhalation: Inhalation of fine particles is not harmful.

Environmental Data

Inactive. Does not influence unless burnt.

Waste Disposal Method:

Dispose of the waste as nonflammable waste, in accordance with applicable national/local regulations. Do not burn. Filling in the reclaimed land is preferable.

Transportation Information

Nothing in particular

Applicable regulations

Nothing in particular.

Others

For further information, please contact:

JAPAN GORE-TEX INC. EMS Project

Telephone: +81-867-24-1211

References:

- 1) *Guidelines for handling fluoric resin* from Japan Fluoropolymers Industry Association
- 2) *Recommended Standard for Occupational Health on Thermal Decomposition Products of Fluoric resins* : National Institute for Occupational Safety and Health, USA from Japan Fluoropolymers Industry Association

Note: This document is furnished based on the information and data available as of the issue date, without warranty, expressed or implied as to the data and evaluations included herein. The notes herein assume that the material is handled in ordinary way. If it is used in special process or for new application, safety measures appropriate for the new process and/or application should be implemented.