

Material Safety Data Sheet

<p>1. Identification of the preparation</p> <p>Compound: A4006</p> <p>Supplier : Chang Xin Rubber (Shanghai) LLC. No. 88, zhong-chen Rd., Songjiang zone Shanghai City</p> <p>Tel.Number:021-67764000 Fax number:021-67764100 Emergency Call:021-67764000</p>
<p>2. Composition/information on ingredients</p> <p>Material Fluoro Carbon Elastomer</p>
<p>3.Hazards Identification</p> <p>INGESTION Not a probable route of exposure. Low toxicity.</p> <p>SKIN Prolonged contact may produce skin irritation. Avoid skin contact.</p> <p>EYE Mechanical irritation.</p> <p>INHALATION : Toxic and corrosive hydrogen fluoride may be liberated during Processing above 200 C (392 F) , or from smoking tobacco or cigarettes contaminated with resin dust. These vapors can irritate the eye 、 nose 、 throat 、 and Lungs. Lung effects may be delayed for several hours. During vulcanization small amounts of methyl bromide may be formed and liberated as a gas .</p> <p>CHRONIC EFFECTS : None known .</p> <p>MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE : None known .</p> <p>Carcinogenicity Information : None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC 、 NTP 、 OSHA or ACGIH as a carcinogen .</p>
<p>4.First aid measures</p> <p>First Aid</p> <p>INHALATION : No specific intervention is indicated as the compound is not likely to be hazardous by inhalation . Consult a physician if necessary . If exposed to fumes from overheating or combustion 、 move to fresh air . Consult a physician if symptoms persist .</p> <p>SKIN CONTACT : The compound is not likely to be hazardous by skin contact but cleansing the skin</p>

after use is advisable .

If molten material gets on skin, cool rapidly with cold water . Do not attempt to remove material from skin . Obtain medical treatment for thermal burn .

EYE CONTACT :

Flush eyes with plenty of water . Consult a physician if symptoms persist .

INGESTION :

No specific intervention is indicated as compound is not likely to be hazardous by ingestion . Consult a physician if necessary .

5.Fire fighting measures

Flash Point : > 204 C (>399 F)

Method : Open cup

Fire and Explosion Hazards :

Pellet form may accumulate static charge when poured from one container to another .

Hazardous gases/ vapors produced in fire are hydrogen fluoride(HF), carbonyl fluoride , low molecular weight fluorocarbons .

Extinguishing Media

Water, Foam ,Dry Chemical,CO2

Fire Fighting Instructions

Wear self-contained breathing apparatus. Wear full protective equipment.

Does not burn without an external flame. Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid. Wear Neoprene gloves when handling refuse from a fire.

6.Accidental release measures

Safeguards (Personnel)

NOTE : Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) Sections before proceeding with clean-up . Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up .

Spill Clean Up

Sweep up to prevent slipping hazards.

7.Handling and storage

Handling (personnel) :

See FIRST AID and PERSONAL EQUIPMENT SECTIONS .

Storage : Store in a cool,dry place. Keep containers tightly closed to prevent moisture absorption and contamination.

8.Exposure control/personal protection

Engineering Controls

VENTILATION Vapors and fumes liberated during hot processing should be exhausted from work areas to maintain hydrogen fluoride and methyl bromide concentrations below the PEL. Provide grounding of equipment when handling pellets to prevent static build-up. Avoid contamination of cigarettes or tobacco with polymer.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material.

RESPIRATORS

When temperatures exceed 200 degrees C and ventilation is inadequate to maintain concentrations below exposure limits, use a positive pressure air supplied respirator. Air purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING

If there is potential contact with hot/molten material, wear heat resistant clothing and footwear. Do not touch decomposed parts even when cool. Neoprene gloves recommended.

9. Stability and reactivity

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Temperatures above 200 C (392 F).

Decomposition

HAZARDOUS DECOMPOSITION PRODUCTS Hydrogen fluoride (HF) and Perfluoroolefins.

If the FKM-compounds is used or tested at temperatures above > 316 degrees C, the surface of the parts may contain HF or HF condensate, which may cause severe burns, sometimes with symptoms delayed for several hours. wear neoprene or PVC (if temperature is below melting point of PVC) gloves when handling parts or equipment after exposure to such high temperatures. IF condensate is expected, wash equipment and parts well with limewater (calcium hydroxide solution).

Discard gloves after handling degraded "FKM-compounds" parts.

10. Ecological information

Ecotoxicological Information.

AQUATIC TOXICITY :

No information is available. Toxicity is expect to be low based on insolubility in water.

<p>11. Disposal considerations</p> <p>Waste Disposal</p> <p>Preferred options for disposal are (1) recycling , (2) incineration with energy recovery, and (3) landfill . The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage , transportation ,and disposal must be in accordance with applicable federal ,state/provincial ,and local regulations.</p>
<p>12. Transportation information</p> <p>Shipping Information.</p> <p>DOT/IMO/IATA</p> <p>Proper Shipping Name :Not regulated.</p>
<p>13. Regulatory information</p> <p>Special labeling or classification are not required.</p>
<p>14. Other information</p> <p>Additional Information</p> <p>Medical Use: Caution: Do not use in medical applications involving permanent implantation in the human body.</p>

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.