

From DuPont Performance Elastomers

# Guide for Safety in Handling Kalrez<sup>®</sup> Perfluoroelastomer Parts

Kalrez<sup>®</sup> perfluoroelastomer parts or shapes provided for use in assemblies without modification comply with the definition of an article as defined by the Occupational Safety and Health Administration (OSHA) in 29CFR1910.1200. Material Safety Data Sheets (MSDSs) are not required for articles as defined in 29CFR1910.1200.

If further processing such as cutting or grinding is done on Kalrez<sup>®</sup> parts or shapes, an MSDS for semi-finished parts and shapes is available from the DuPont Performance Elastomers website at http://www.dupontelastomers.com under Technical Information or by calling 1-800-853-5515.

### Precautions in the Event of a Fire or Exposure to Excessive Heat

Highly toxic products, including hydrogen fluoride, carbonyl fluoride, carbon monoxide and low molecular weight fluorocarbon fragments, can be generated when exposed to fire or temperatures in excess of 400°C. Personnel fighting a fire containing perfluoroelastomer parts should wear self-contained breathing apparatus (SCBA) and full protective equipment.

Hydrogen fluoride that may be generated during exposure of perfluoroelastomer parts to excessive temperature can react with water to form hydrofluoric acid. Wear neoprene gloves when handling (cool) 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 thermally degraded parts.

If the potential exists for perfluoroelastomer parts to be exposed to temperatures in excess of 400°C and ventilation is inadequate to maintain concentrations of hydrogen fluoride and carbonyl fluoride below exposure guidelines (PEL/TLV-TWA 3ppm for hydrogen fluoride and PEL/TLV-TWA 2ppm for carbonyl fluoride) use a positive pressure air supplied respirator.

Inhalation of low concentrations of hydrogen fluoride can initially include symptoms of choking, coughing, and severe eye, nose and throat irritation, possibly followed after a symptom less period of 1 to 2 days by fever, chills, difficulty in breathing, cyanosis, and pulmonary edema. Acute or chronic overexposure to hydrogen fluoride can injure the liver and kidneys.

Inhalation, ingestion or skin contact with carbonyl fluoride may initially include: skin irritation with discomfort or rash; eye corrosion with corneal or conjunctival ulceration; irritation of the upper respiratory passages; or temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath. Symptoms may be delayed.

## **General Handling/First Aid Precautions**

Kalrez<sup>®</sup> parts are not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

Kalrez<sup>®</sup> parts are not likely to be hazardous by inhalation. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

## Incompatibility with other Materials

Incompatible or can react with alkali metals, interhalogen compounds.

#### Waste Disposal

Kalrez<sup>®</sup> perfluoroelastomer parts and shapes generally may be disposed of by landfill or incineration, but any disposal method selected must be in accordance with applicable federal, state/provincial and local regulations. If incineration is employed, the incinerator must be capable of scrubbing out acidic combustion products. Note: Finished parts made from compounds 1058 and 3065 contain lead oxide, and particular requirements may apply (see, e.g., 40 C.F.R. 261.24). A waste generator should perform a waste characterization before disposing, and manage and dispose in accordance with all potentially applicable laws and regulations including the Resource Conservation and Recovery Act.

#### **Medical Use**

Do not use Kalrez<sup>®</sup> perfluoroelastomer parts or shapes in medical applications involving implantation in the human body. For other medical applications see DuPont Performance Elastomers Medical Application Policy.

For further information please contact one of the addresses below, or visit us at our website at www.dupontelastomers.com/kalrez

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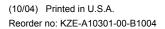
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CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, discuss with your DuPont Performance Elastomers customer service representative and read Medical Caution Statement H-69237.

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