

MATERIAL SAFETY DATA SHEET

Issue: 1

Revision: 0

Dated: 11/2/98

MATERIAL

SILICONE RUBBER COMPOUNDS

POLYMER

Polyorganosiloxanes.

COMPOSITION

Silica, mineral fillers, peroxide pigment. Miscellaneous additives include process aids and cure modifiers.

PHYSICAL DATA

Specific gravity 1.05-1.40. Slab, bar and strip. Polythene wrapped and interleaved.

FIRE HAZARD INFORMATION

4.1

Auto Temperature

Polymer	>	400°C
Compounds	>	400°C

4.2 Hazardous Decomposition Products

On combustion or on thermal decomposition (pyrolysis) releases highly flammable gases which generate fire or explosive hazards, flammable vapours which may generate fire or explosion hazards, toxic gases. Carbon oxides CO and CO₂.

Although silicone compounds are known for their thermal stability, a very slow degradation process may occur when heated above 150°C. During this process small amounts of formaldehyde may be released. The amount is very small, if measurable at all, and minimal ventilation conditions will prevent vapour levels to become significant and hazards of exposure are negligible.

4.3 Extinguishing Media

Foam, powders, CO₂, water spray.

4.4 Protective Clothing

In the event of fire, cool down containers/equipment exposed to heat with water spray. Wear self contained breathing apparatus.

FUMES AND VAPOUR FROM CURING

Volatile materials may be evolved from silicone rubber compounds during cure and in general the higher the temperature the more concentrated are the fumes emitted.

Composition of rubber fume during cure is complex but emissions from silicone compounds are known to contain CO₂ water and decomposition products of organo peroxides and silanes.

The COSHH regulations state that rubber fume be contained within a maximum exposure level M.E.L. of 0.6Mg/M³ measured by personal operator sampling and expressed as an 8 hour time weighted average.

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When moulding, extruding, curing and post curing silicone compounds, sufficient local exhaust ventilation must be provided at processing centres to ensure compliance with these regulations and for the protection and safe working of process operators.

6**REACTIVITY INFORMATION**

Local effects: No data available, however, silicone compounds are not considered to irritate the skin. The fire remains may cause slight irritation to mucous membranes due to presence of a foreign body.

Not classified as hazardous according to EEC criterion.

7**FIRST AID****7.1 Eye Contact**

In the event of eye contact with fumes, decomposition products or hot compound, immediately flush with plenty of water.

7.2 Skin Contact

In the event of skin contact with hot compound or decomposition products, cool skin rapidly with cold water and wash off with soap and water.

7.3 Inhalation

If fumes, decomposition products or high temperature emitted vapours are inhaled, move to fresh air. In cases of extreme exposure consult a doctor.

8**PRECAUTIONARY INFORMATION**

Store compound below 25°C.

Store compound in the absence of direct light.

Do not consume food when handling compound.

Avoid inhalation of curing fume and vapours.

Ventilate areas where silicone products are processed above 150°C.