

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Elastochem - Halo 05 FR Part B  
Chemical Name: Mixture  
Manufacturer: Elastochem Specialty Chemicals Inc.  
37 Easton Road  
Brantford, Ontario N3P 1J4  
Phone (519) 754-1678 Fax (519) 754-4487

Supplied by: Elastochem Specialty Chemicals Inc.  
Emergency Telephone #: Chemtrec Emergency Number: 800-424-9300  
Intended use of Product: Polyurethane Crosslinker

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	Approximate Concentration	CAS #	Exposure Limits	LD50/LC50
Diethyltoluene diamine	1%-5%	68479-98-01	0.02ppm	472mg/kg (rat) >2.45mg/l (rat)
Zinc Borate	1-5%	1332-07-6	Not available	>10 000mg/kg /Not established

Consult local authorities for acceptable exposure limits

Section 3: HAZARDS IDENTIFICATION

**Routes of Entry:** Skin contact, eye contact, ingestion, inhalation.  
**Acute Effects:** Skin Contact- Prolonged or repeated contact may cause severe irritation, defatting or dermatitis.  
Eye Contact - May cause severe eye irritation and permanent eye damage.  
Ingestion - May cause irritation of the mouth, throat, esophagus, and stomach. May cause nausea, diarrhea, and vomiting.  
Inhalation- May cause irritation of the respiratory tract and mucous membranes of the mouth, throat, esophagus and stomach. May cause coughing, nausea, vomiting and chest pain.  
**Chronic Effects:** None known

See toxicological information (section 11)

**Section 4: FIRST AID MEASURES**

**Skin:** Clean exposed area with soap and warm water. Remove contaminated clothing. Seek medical attention if irritation persists.

**Eyes:** Immediately flush thoroughly with water for at least 15 minutes lifting eye lids occasionally. Get prompt medical attention.

**Inhalation:** Remove to fresh air; give artificial respiration if not breathing. Get medical attention.

**Ingestion:** Do not induce vomiting. If victim is alert give 1-2 glasses of water to dilute the stomach contents. Keep person warm, quiet and medical attention immediately.

**Section 5: FIRE FIGHTING MEASURES**

**Means of Extinction:** AFFF Foam, Water Fog, Dry Chemical, and Carbon Dioxide.

**Special Procedures:** None

**Flashpoint:** 342°C

**Lower Explosion Limit:** Not available

**Upper Explosion Limit:** Not available

**Auto Ignition Temperature:** Not available

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, oxides of nitrogen and amines.

**Sensitivity to Mechanical Impact:** No

**Sensitivity to Static Discharge:** No

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Spill Procedure:**

Clean up personnel must wear protective equipment to prevent contact with the product. Evacuate the area of all unnecessary personnel. Stop spill at source. Use inert absorbent material such as sand, clay, earth or floor absorbent to clean up spill. Shovel into drums.

**Section 7: HANDLING AND STORAGE**

**Handling & Storage:**

Store product at room temperature away from heat and moisture. Handle in a well ventilated area with local exhaust. Wear all personal protective equipment.

**Special shipping Information:** None

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTIONS**

**Personal Protective equipment:** Safety glasses, chemical resistant gloves, protective clothing and NIOSH approved atmosphere supplying respirator in positive pressure mode for spraying in confined work

areas. For outdoor applications, an organic cartridge full face mask is adequate.

**Ventilation:** Local exhaust ventilation is required.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Odour: Amine Odour	Vapour Density: NIL
Appearance: Clear Liquid	Evaporation Rate: Not Applicable
Physical State: liquid	Solubility in Water: None
Odour Threshold: NIL	% Volatile by volume: Not applicable
Specific Gravity: 1.03g/mL	
Freezing Point: Not Available	
Viscosity: 700cps	
Boiling Point: Not Applicable	
Vapour Pressure (mm Hg): None	

#### Section 10: STABILITY AND REACTIVITY

**Chemical Stability:** This is a stable material at room temperature.

**Conditions to avoid:** Avoid high temperatures, sparks, flames.

**Incompatibility (Materials to avoid):** Avoid contact with oxidizing materials, halogens, isocyanates and acids.

**Hazardous decomposition Products:** Carbon dioxide, carbon monoxide, hydrogen cyanide, and nitrogen oxides.

**Hazardous Polymerization:** Polymerization will not occur under normal conditions.

#### Section 11: TOXICOLOGICAL INFORMATION

**LD50:** (Oral, rat) = 542 mg/Kg

**LD50:** (Dermal, rabbit) = 700mg/Kg

**Carcinogenicity:** This product may have carcinogenic effects.

**Teratogenicity:** No Data available

**Reproductive Toxicity:** No Data available

**Mutagenicity:** No Data available

**Name of toxicologically synergistic products:** None known

#### Section 12: ECOLOGICAL INFORMATION

No ecological information available.

#### Section 13: DISPOSAL CONSIDERATIONS

**Waste information:** Waste and empty packaging must be disposed of in accordance with federal, provincial, and municipal environmental control regulations.

**Waste stream:** Avoid entry of product into the sewage system or water streams.

Consult your local or regional authorities.

Section 14: TRANSPORT INFORMATION

**TDG (TRANSPORATION OF DANGEROUS GOODS) CLASSIFICATION:** Not regulated  
**Class:** Not regulated

Section 15: REGULATORY INFORMATION

**WHMIS CLASSIFICATION:** D-2A,  
**Domestic Substance List (DSL):** Yes

Section 16: OTHER INFORMATION

**References:** Canadian Guide of the Law and Regulations of the Transportation of Dangerous Goods. Controlled products regulations. Manufacturer's Material Safety Data Sheet. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Other special considerations:** No additional remark.

**Regulatory Affairs Department:** 519-754-1678

**DATE:** January 1, 2013

**REVISION 5**

**PREPARED BY:** Regulatory Affairs group,  
Elastochem Specialty Chemicals Inc.