

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Elastochem - Halo 05 FR Part A
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 Resin

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	Approximate Concentration	CAS #	Exposure Limits	LD50/LC50
4,4" Diphenylmethane Diisocyanate	30-60%	101-68-8	Not available	>2000 mg/kg (rat) 490 mg/m ³

Consult local authorities for acceptable exposure limits

Section 3: HAZARDS IDENTIFICATION

Routes of Entry: Skin contact, eye contact, ingestion, inhalation.

Acute Effects: Skin Contact- May cause redness, irritation and swelling.

Eye Contact - May cause redness, irritation, tearing, stinging and swelling.

Ingestion - May cause abdominal pain, nausea, vomiting and diarrhea.

Inhalation- May irritate the respiratory tract, cause sore throat, choking and tightness of chest.

Chronic Effects: Repeated overexposure can cause isocyanate sensitization. May cause permanent lung damage

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.

Eyes: Immediately flush thoroughly with water for at least 15 minutes lifting eye lids occasionally. Get 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 or milk 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: 216°C

Lower Explosion Limit: Not available

Upper Explosion Limit: Not available

Auto Ignition Temperature: Not available

Hazardous Combustion Products: Oxides of carbon and nitrogen

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: Musty

Appearance: Clear Amber Liquid

Physical State: liquid

Odour Threshold: Not available

Specific Gravity: 1.09g/mL

Vapour Density: Not available

Evaporation Rate: Not Applicable

Solubility in Water: Insoluble

% Volatile by volume: Not available

Freezing Point: 10-15.56°C

Viscosity: Not Available

Boiling Point: 208°C

Vapour Pressure: 2500 mPa.s

Section 10: STABILITY AND REACTIVITY

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

Conditions to avoid: High temperature, sparks and open flames.

Incompatibility (Materials to avoid): Water, amines, strong bases, alcohols, copper alloys.

Hazardous decomposition Products: Oxides of carbon and nitrogen, hydrogen cyanide, dense black smoke, and isocyanate.

Hazardous Polymerization: Polymerization may occur if in contact with water or other materials that react with isocyanate or temperatures above 177°C.

Section 11: TOXICOLOGICAL INFORMATION

LD50: (Oral, rat) = >2000mg/Kg

LD50: (Dermal, rabbit) = Not available

Carcinogenicity: This product is not classified as carcinogenic by AGGIH or IARC.

Teratogenicity: None Known.

Reproductive Toxicity: None Known.

Mutagenicity: None Known.

Name of toxicologically synergistic products: None known

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity is low. A pond study showed gross contamination caused no significant toxic effects on a wide variety of flora in all trophic levels (including fish), no detectable MDA, and no evidence of bioaccumulation of MDI or MDA.

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 (TRANSPORTATION OF DANGEROUS GOODS) CLASSIFICATION: Not regulated

Class: Not regulated

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION: D-2A, D-2B
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 4

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