

HCC ID: 610733-H01-020409

HOUGHTON CHEMICAL CORPORATION
MATERIAL SAFETY DATA SHEET

"SECURITY EXTENDED LIFE ANTIFREEZE/COOLANT CONCENTRATE"

SECTION 1
IDENTIFICATION

MANUFACTURER: Houghton Chemical Corporation

ADDRESS: 52 Cambridge Street, Allston, MA 02134

EMERGENCY TELEPHONE: (617) 254-1010, 1-800-777-2466 or
Chemtrec 1-800-424-9300

CHEMICAL NAME & SYNONYMS: Permanent Antifreeze and Summer Coolant

CHEMICAL FAMILY: Ethylene Glycol/Engine Coolant

CAS REGISTRY NUMBER: Not applicable for blended product

DOT SHIPPING CLASSIFICATION: Not regulated in quantities containing less than 5,000 pounds
of ethylene glycol

PRODUCT NUMBER: 61733, 62733

SECTION 2
HAZARDOUS INGREDIENTS

MATERIAL	CAS #	%	TLV (Units)
Ethylene Glycol	107-21-1	90-95	50 ppm
Diethylene Glycol	111-46-6	≤ 5	Not applicable
Water	7732-18-5	≤ 4	Not applicable
2 Ethyl Hexanoic Acid, Sodium Salt	19766-89-3	≤3%	Not applicable
Sodium Nitrite	7632-00-0	≤1%	Not applicable
Sodium Tolytriazole	6466-57-2	≤1%	Not applicable

SECTION 3
PHYSICAL DATA

BOILING POINT: @760 mm Hg. 325⁰F

FREEZING POINT: 4⁰ F

SPECIFIC GRAVITY: 1.12

VAPOR PRESSURE AT 20⁰C: 0.1

VAPOR DENSITY (air = 1): 2.1

SOLUBILITY IN WATER: Complete

% VOLATILE BY VOLUME: Greater than 95%

EVAPORATION RATE: <1 (N-Buac=1)
APPEARANCE AND ODOR: Red, mild odor

**SECTION 4
FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: 250⁰F - TOC 225⁰F - TCC

AUTO IGNITION TEMPERATURE: Not applicable

FLAMMABLE LIMITS IN AIR: LEL = 3.0 UEL = 16 (calculated)

EXTINGUISHING MEDIA: Water, fog, alcohol foam, dry chemical or CO₂ for small fires

SPECIAL FIRE FIGHTING PROCEDURES:
A solid stream of water directed into hot burning liquid can cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None

**SECTION 5
REACTIVITY DATA**

STABILITY: This material is stable.

INCOMPATIBILITY: Keep away from strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:
Burning can produce carbon dioxide or carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

**SECTION 6
HEALTH HAZARD DATA**

Threshold Limit Value: 50 ppm (vapor or mist)

Effects of Overexposure: Irritating to eyes and skin. Inhalation irritates nose and throat. High vapor concentration causes nausea, vomiting and headaches.

Eye Contact: Irritation may result.

Skin: May be mildly irritating to skin. Slightly toxic on prolonged or repeated contact.

Inhalation: Exposure to high vapor concentration from heated antifreeze coolant or exposure to mists may produce nausea, vomiting, headache, dizziness and irregular eye movements.

Ingestion: Swallowing causes abdominal discomfort or pain, dizziness, lumbar pain, oliguria, uremia and central nervous system depression. Large volumes cause kidney damage and can be fatal.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush with plenty of water for at least 15 minutes.

Skin: Flush with plenty of water, wash with mild soap if available.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

Ingestion: If swallowed, IMMEDIATELY contact a poison control center, emergency treatment center, or physician.

SECTION 7 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED:

Wear suitable protective equipment. Large spills should be contained and collected. Small spills can be collected or may be absorbed with appropriate liquid absorbing materials. All spill response and disposal should be carried out in accordance with federal, state and local requirements.

WASTE DISPOSAL METHOD: Consult with local sewer, municipal, state and/or federal agencies to determine appropriate current disposal options.

SECTION 8 SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION: Provide adequate ventilation with local exhaust system.

VENTILATION: Mechanical or other

PROTECTIVE GLOVES: Rubber gloves recommended.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Normally not required

SECTION 9
SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not breathe mist or spray. Follow good work/hygiene practices. Provide safety shower and wash in immediate area. Workers should wash with soap and water before eating, smoking or using toilet facilities. Launder contaminated clothing before re-use.