

SAFETY DATA SHEET

GHS format

SECTION 1 IDENTIFICATION

Product Name: Internal Coil Cleaner, Hydro-Balance**Product Number(s):** H-CF01**Product Use:** A/C Refrigeration flushing solvent. **Restrictions on use:** Not determined**Distributed by:** Hydro-Balance Corporation**Manufactured by:** North American Research Corporation

P.O. Box 1318	519 Huffines Blvd.
Lewisville, TX 75067	Lewisville, TX 75056

Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755**Emergencies:** Infotrac (24 hours, everyday) (800) 535-5053 (US & Canada) 1 (352) 323-3500 (International)

SECTION 2 HAZARD(S) IDENTIFICATION

Classification	Category
Flammable liquids	4

Symbol(s):
None required

Signal Word: Warning**Hazard statement(s):** Combustible liquid**Precaution(s):****Prevention:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Wear protective gloves and eye protection.**Response:** In case of fire: Use dry sand, dry chemical or alcohol resistant foam to extinguish.**Storage:** Store in a well-ventilated place.**Disposal:** Dispose of contents and container in accordance with all local, regional, and national regulations.**Other Hazards:** None identified.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Registry No.	Weight %
Dipropylene glycol monomethyl ether	34590-94-8	45 – 50
Diethylene glycol monoethyl ether	111-90-0	50 – 55

If the specific chemical identity and/or the exact percentage of an ingredient is not specified, the information has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

General information: IF exposed or concerned: Get medical advice/attention.**Eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation develops or persists, get medical attention.**Inhalation:** Remove person to fresh air if adverse effects are observed.**Skin contact:** Wash with soap and water. If skin irritation occurs, get medical attention.**Ingestion:** Do not induce vomiting. Rinse mouth. Get medical attention if symptoms occur.**Most important symptoms/effects:** See section 11.**Indication of immediate medical attention and special treatment needed, if necessary:****Notes to physician:** Treat symptomatically.**Specific treatments:** No specific treatment.

SECTION 5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Water fog or fine spray. Dry chemical or carbon dioxide extinguishers. Foam.

Specific hazards arising from the chemical:

A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

Special protective equipment for fire-fighters: Use appropriate equipment for surrounding fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment and emergency procedures: Put on appropriate personal protective equipment (see section 8).**Methods and materials for containment and cleaning-up:** Soak up with inert, absorbent material. Sweep up and shovel into suitable containers for proper disposal.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Keep away from heat, sparks, and flames. Keep container closed.

Conditions for safe storage, including any incompatibilities: Store away from incompatible materials. See section 10 for incompatible materials.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	CAS	OSHA PEL	ACGIH TLV	NIOSH REL
Dipropylene glycol monomethyl ether	34590-94-8	600 mg/m3 100 ppm TWA	100 ppm TWA 150 ppm STEL	
Diethylene glycol monoethyl ether	111-90-0	25 ppm TWA US WEEL		

Appropriate engineering controls: No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures (PPE):

Eye protection: If contact is likely, safety glasses with side shields are recommended.

Hand protection: Suitable gloves as recommended by glove supplier.

Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.

Respiratory Protection: A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid	U/L flammability or explosive limits	No data available
Odor	Bland mild odor	Vapor pressure	No data available
Odor threshold	No data available	Vapor density	No data available
pH	Not applicable	Relative density (specific gravity)	0.97 (20°C)
Melting point/freezing point	No data available	Solubility(ies)	Complete
Initial boiling point and boiling range	No data available	Partition coefficient: n-octanol/water	No data available
Flash point	> 82°C, 180°F CC	Auto-ignition temperature	No data available
Evaporation rate	No data available	Decomposition temperature	No data available
Flammability (solid, gas)	No data available	Viscosity	No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: Incompatible materials, excessive heat and fire, or oxidizing materials.

Incompatible materials: Strong oxidizing agents, strong acids, and strong bases.

Hazardous decomposition products: When exposed to fire, produces normal products of combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Acute toxicity:

Skin corrosion/irritation: May cause temporary eye irritation. Eye injury is unlikely.

Serious eye damage/irritation: Not assigned. May cause temporary eye irritation. Eye injury is unlikely.

Inhalation: No relevant data available.

Ingestion: No data available.

Sensitization: Not assigned. No known effects.

Numerical measure of toxicity, component information:

Chemical name	CAS	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Dipropylene glycol monomethyl ether	34590-94-8	5230 mg/kg (rat)	9500 mg/kg (rabbit)	Data not available
Diethylene glycol monoethyl ether	111-90-0	6031 mg/kg (mouse)	9143 mg/kg (rabbit)	Data not available

Specific target organ toxicity, single exposure: Not assigned.

Specific target organ toxicity, repeated exposure: Not assigned.

Carcinogenicity: This product is not classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain known reproductive or developmental toxins.

Reproductive Toxicity: Studies in laboratory animals indicate that diethylene glycol monoethyl ether (DEGEE) is not a reproductive toxicant even when given in large amounts (a few percent in the drinking water). However, at the highest doses, it caused some toxic effects in offspring of treated animals: increased liver weight, decreased brain weight, reduced sperm motility.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Diethylene glycol monoethyl ether:

Material is practically non-toxic to aquatic organisms on an acute basis.

LC50: >100 mg/L in the most sensitive species tested.

Persistence and degradability: Readily biodegradable.

Bioaccumulation potential:

Bioconcentration Factor (BCF): Low - < 100 or Log Pow <3.

Mobility in soil: No data available.

Other adverse effects: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Unused product: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Contaminated containers or packaging: Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

SECTION 14 TRANSPORT INFORMATION

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT, IMDG, IATA	Not regulated as supplied by factory			

SECTION 15 REGULATORY INFORMATION

Inventory status:

TSCA: All components of this product are on the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.

CERCLA: No reportable ingredients.

SARA TITLE III:

Section 311/312 Hazard Category: Acute: No Chronic: No Fire: No Reactive Hazard: No

Section 313 Reportable Ingredients: Glycol ethers.

CALIFORNIA (Proposition 65): WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm. Ethylene glycol monoethyl ether (CAS 110-80-5)

SECTION 16 OTHER INFORMATION

Date Prepared: Jun. 11, 2018 **Replaces:** Apr. 14, 2015

NOTICE: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all federal, state, provincial, and local laws and regulations.