

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ADVACor™ ABR Absorption Refrigerant  
**CHEMICAL FAMILY:** None  
**MOLECULAR FORMULA:** H<sub>2</sub>O  
**SYNONYM(s):** Deionized Water, Distilled Water  
**GENERAL USE:** Industrial Manufacturing

**MANUFACTURER**  
FMC CORPORATION  
Lithium Division  
P.O. Box 795  
Bessemer City, NC 28016-0795  
**General Information:** (704) 868-5300

**Emergency Telephone Numbers:**  
**CHEMTREC** (800) 424-9300  
**Emergency Phone** (704) 629-5361 (Plant) Call Collect 24 Hr/Day  
**Emergency Phone** (303) 595-9048 (Medical) Call Collect

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt. %</u>
Water	7732-18-5	100

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Clear, colorless, odorless liquid.  
**POTENTIAL HEALTH EFFECTS:** No significant health effects expected.

**COMMENTS:**  
(See Section 11, Toxicological Information)

### 4. FIRST AID MEASURES

**EYES:** It is unlikely that emergency treatment will be required.  
**SKIN:** It is unlikely that emergency treatment will be required.  
**INGESTION:** It is unlikely that emergency treatment will be required. If adverse effects occur, get medical attention. Treatment is symptomatic and supportive.  
**INHALATION:** It is unlikely that emergency treatment will be required. If adverse effects occur, get medical attention. Treatment is symptomatic and supportive.

**NOTES TO MEDICAL DOCTOR:**  
Treatment is symptomatic and supportive.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE LIMITS:** Upper: Not available Lower: Not available.  
**GENERAL HAZARD:** No known physical hazard, non-combustible.  
**EXTINGUISHING MEDIA:** Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
**HAZARDOUS COMBUSTION PRODUCTS:** None  
**FIRE FIGHTING PROCEDURES:** Wear full protective clothing and self-contained breathing apparatus

(SCBA) approved for fire fighting. This is necessary to protect against the hazards of heat, products of combustion and oxygen deficiency. Do not breathe smoke, gases or vapors generated.

**AUTOIGNITION TEMPERATURE:**  
**PROPERTIES CONTRIBUTING TO FLAMMABILITY:**  
**FLASH POINT:**  
**SENSITIVITY TO STATIC DISCHARGE:**  
**SENSITIVITY TO IMPACT:**

Not applicable  
None  
Not applicable  
Not applicable  
Not applicable

**COMMENTS:**  
(See Section 10, Stability and Reactivity)

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## 6. ACCIDENTAL RELEASE MEASURES

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**RELEASE NOTES:** No special release measures required.  
Before cleanup measures begin, review the entire MSDS with particular attention to Section 3, Emergency Overview and Potential Health Effects; and Section 8, Recommended Personal Protective Equipment.

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## 7. HANDLING AND STORAGE

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**HANDLING:** Avoid contact with eyes, skin or clothing.  
**STORAGE:** Keep container closed.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### **EXPOSURE LIMITS**

<b><u>Chemical Name</u></b>	<b><u>TWA (ACGIH)</u></b>	<b><u>STEL/Ceiling (ACGIH)</u></b>	<b><u>PEL (OSHA)</u></b>	<b><u>STEL/Ceiling (OSHA)</u></b>
None				

**ENGINEERING CONTROLS:**  
None

### **PERSONAL PROTECTIVE EQUIPMENT**

**Eyes And Face:** None  
**Respiratory:** None  
**Protective Clothing:** None  
**Work Hygienic Practices:** None

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**ODOR:** Odorless  
**APPEARANCE:** Clear, colorless, liquid  
**pH:** 7  
**PERCENT VOLATILE:** Not applicable  
**VAPOR PRESSURE:** Not applicable  
**VAPOR DENSITY:** Not applicable  
**BOILING POINT:** 100°C (212°F)  
**MELTING POINT:** 0°C (32°F)  
**SOLUBILITY IN WATER:** Not applicable

<b><u>EVAPORATION RATE(Butyl Acetate = 1):</u></b>	Not applicable
<b><u>SPECIFIC GRAVITY:</u></b>	1 g/cc
<b><u>MOLECULAR WEIGHT:</u></b>	18.02
<b><u>COEFF. OIL/WATER:</u></b>	Not applicable
<b><u>ODOR THRESHOLD:</u></b>	Not applicable
<b><u>FLAMMABLE LIMITS:</u></b>	Upper: Not available Lower: Not available.
<b><u>FLASH POINT:</u></b>	Not applicable
<b><u>AUTOIGNITION TEMPERATURE:</u></b>	Not applicable
<b><u>EXPLOSIVE PROPERTIES:</u></b>	Not explosive
<b><u>OXIDIZING PROPERTIES:</u></b>	Not an oxidizer

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## 10. STABILITY AND REACTIVITY

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<b><u>CONDITIONS TO AVOID:</u></b>	None
<b><u>STABILITY:</u></b>	Stable
<b><u>POLYMERIZATION:</u></b>	Does not polymerize
<b><u>HAZARDOUS DECOMPOSITION PRODUCTS:</u></b>	None
<b><u>INCOMPATIBLE MATERIALS:</u></b>	Any substance that is water reactive

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## 11. TOXICOLOGICAL INFORMATION

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<b><u>Eye Contact:</u></b>	No data available for the product.
<b><u>Skin Contact:</u></b>	No data available for the product.
<b><u>Skin Absorption:</u></b>	No data available for the product.
<b><u>Ingestion:</u></b>	No data available for the product.
<b><u>Inhalation:</u></b>	No data available for the product.

**Acute Effects From Overexposure:**  
No data available for the product. No significant hazards expected.

**Chronic Effects From Overexposure:**  
No data available for the product. No significant hazards expected.

<b><u>Sensitization:</u></b>	No
<b><u>Carcinogenicity:</u></b>	EH40: Not listed. IARC: Not listed. NTP: Not listed. OSHA: Not considered a carcinogen under OSHA. ACGIH: Not listed

**Mutagenicity:** No

**Reproductive Toxicity:** No

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicological Information:**  
Not applicable

**Chemical Fate Information:**

Not applicable

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### 13. DISPOSAL CONSIDERATIONS

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**DISPOSAL METHOD:** Dispose of waste according to local and Federal laws and regulations.

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### 14. TRANSPORT INFORMATION

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**PROPER SHIPPING NAME:** None  
**CLASSIFICATION:** None  
**LABELS:** None  
**UN NUMBER:** None  
**PACKING GROUP:** None  
**CUSTOM TARIFF NO:** 2851.00.0065  
**MARINE POLLUTANT:** No  
**PIH:** Not designated Poison Inhalation Hazard by US DOT.

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### 15. REGULATORY INFORMATION

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**UNITED STATES**  
**SECTION 311 HAZARD CATEGORY (40 CFR 370):** None  
**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):** Not listed  
**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):** Not listed  
**CERCLA HAZARDOUS SUBSTANCE (40 CFR 302.4):** Not listed  
**TSCA SEC 12B EXPORT NOTIFICATION:** This product is not subject to TSCA 12 (b) Export Notification Requirements.  
**TSCA INVENTORY STATUS (40 CFR 710):** Listed  
  
**CANADA**  
**WHMIS:** Product Identification No.: None  
Hazard Classification: None  
Ingredient Disclosure List: Not listed

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### 16. OTHER INFORMATION

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**REVISION SUMMARY:** Revision # 4: Section 14 revised.

**NFPA RATING**

**HEALTH:** 0  
**FLAMMABILITY:** 0  
**REACTIVITY:** 0  
**SPECIAL:** None

This MSDS has been prepared to meet U. S. OSHA Hazard Communication Standard, 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.  
type 0

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