

# SAFETY DATA SHEET



AMERICAN CHEMICAL TECHNOLOGIES, INC.

This SDS conforms to the GHS, ISO 11014-1, and ANSI Z400.1  
This SDS complies with 29 CFR 1910.1200  
Prepared according to EU Directive 1907/2006/EC

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## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:** FR WG Concentrate  
**Product Code:** FR WG CONCEN  
**Product Type:** Polyalkylene Glycol  
**Recommended Use:** Water Glycol Additive

**Manufacturer/Supplier:**  
American Chemical Technologies, Inc.  
485 E. Van Riper Road, Fowlerville, MI 48836  
Office: 517-223-0300 Fax: 517-223-1703

**Emergency Spill Information:**  
INFOTRAC 1-800-535-5053 (US & Canada)  
INFOTRAC 1-352-323-3500 (International)  
24 HOURS/DAY, 7 DAYS/WEEK

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## SECTION 2 – HAZARDS IDENTIFICATION

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**GHS Product Classification:**



Skin irritation – 3  
Target organ - 3

**Emergency Overview:** May cause eye, skin, and respiratory tract irritation. May cause liver damage based upon animal data. May cause lung damage based upon animal data.

**Risk Phrases:** R22, R37, R38

**Safety Phrases:** S3/14, S14, S18, S26, S27/28, S29/35, S36/37, S36/39, S40, S43, S57, S63, S64

**HMIS Code:** (Health: 2) (Flammability: 1) (Physical Hazard: 0) (Protection: H)

**NFPA Code:** (Health: 2) (Flammability: 1) (Reactivity: 0)

**WHMIS Code:**



Class D-2

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**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**


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<b><u>Component</u></b>	<b><u>CAS#</u></b>	<b><u>EC#</u></b>	<b><u>Range % by wt.</u></b>
Polyalkylene Glycol	52624-57-4	Polymer	40% - 60%
Water	7732-18-5	231-791-2	10% - 25%
Diethylene Glycol	111-46-6	203-872-2	5% - 10%
Decanoic Acid	334-48-5	206-376-5	2% - 5%
Morpholine	110-91-8	203-815-1	2% - 5%
Diethanolamine	111-42-2	203-868-0	2% - 5%

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**SECTION 4 – FIRST AID MEASURES**


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**Eye:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin:** After contact with skin, take off immediately all contaminated clothing, wash immediately with plenty of soap and water.

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

**Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious).

**Symptoms/effects:** Mild irritation may occur with overexposure.

**Special treatment:** Treat symptomatically.

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**SECTION 5 – FIRE FIGHTING MEASURES**


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**Suitable Extinguishing Media:** In case of fire use dry chemical, carbon dioxide, foam, steam, or water fog.

**Unsuitable Extinguishing Media:** None identified.

**Specific Hazards:** Keep away from extreme heat and open flames.

**Hazardous Combustion Products:** Incomplete combustion results in oxides of carbon.

**Fire Fighting Equipment:** Fire fighters should wear an approved self-contained breathing apparatus.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**


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**Personal precautions:** Wear suitable protective clothing and gloves.

**Environmental precautions:** Use appropriate containment to avoid environmental contamination. Do not empty into drains; dispose of this material and its container in a safe way.

**Methods and materials for cleanup:** To clean the floor and all objects contaminated by this material use an inert absorbent material.

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## SECTION 7 – HANDLING AND STORAGE

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**Handling:** Handle and open container with care. Avoid contact with skin.

**Storage:** Keep in a cool place away from open flames. Store inside away from extreme temperatures.

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## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Exposure limits:**

<u>Component</u>	<u>CAS#</u>	<u>Country</u>	<u>Long Term (8 Hours TWA)</u>	<u>Short Term (15 min)</u>
Morpholine	110-91-8	USA	20 ppm, 70 mg/m <sup>3</sup>	30 ppm, 105 mg/m <sup>3</sup>

**Engineering Controls:** In case of insufficient ventilation wear suitable respiratory equipment.

**Protective Equipment:** Wear suitable protective clothing, gloves and eye/face protection.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	: Hazy Colorless Liquid	
Odor	: Mild amine	
Odor Threshold	: Not determined	
pH	: 9.5	Method: ASTM D1293
Melting Point / Freezing Point	: Not determined	
Initial Boiling Point	: 245°C (473°F)	
Flash Point	: 121°C (394°F)	Method: ASTM D92
Evaporation Rate	: Not determined	
Flammability	: Not flammable	
Upper/Lower Explosive Limits	: Not determined	
Vapor Pressure	: 17 mbar @ 25°C	Method: ASTM D5482
Vapor Density	: Not determined	
Specific Gravity	: 1.08 @ 25°C	Method: ASTM D1475
Solubility in Water	: Soluble	
Partition Coefficient	: < 3 <i>n</i> -octanol/water	Method: ASTM E1147
Autoignition Temperature	: 412°C (685°F)	Method: ASTM E659
Decomposition Temperature	: Not determined	Method: ASTM E2550
Viscosity	: 500 cSt @ 40°C	Method: ASTM D445

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**SECTION 10 – STABILITY AND REACTIVITY**


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**Chemical Stability:** Stable.

**Hazardous Reactions:** None.

**Conditions to Avoid:** Keep away from extreme heat.

**Materials to Avoid:** Keep away from chlorine, fluorine, and other strong oxidizers.

**Hazardous Decomposition Products:** None identified.

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**SECTION 11 – TOXICOLOGICAL INFORMATION**


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**Eye Contact:** Prolonged or repeated contact may cause eye irritation.

**Skin Contact:** Irritating to skin.

**Inhalation:** Irritating to respiratory system.

**Ingestion:** Harmful if swallowed.

**Primary Routes of Entry:** None identified.

**- ACUTE EXPOSURE --**

Toxicological testing has not been conducted on this product.

<b>Dermal Toxicity</b>	Product or components may be a dermal toxicity hazard.
<b>Inhalation Toxicity</b>	Product or components may be a toxic inhalation hazard.
<b>Oral Toxicity</b>	Product or components may be an oral toxicity hazard.
<b>Dermal Sensitization</b>	No data available to indicate product or components may be a skin sensitizer.
<b>Inhalation Sensitization</b>	No data available to indicate product or components may be respiratory sensitizers.

**-- CHRONIC EXPOSURE --**

Toxicological testing has not been conducted on this product.

<b>Chronic Toxicity</b>	Product or components present at greater than 1% are chronic health hazards.
<b>Carcinogenicity</b>	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive Toxicity</b>	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
<b>Teratogenicity</b>	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

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**SECTION 12 – ECOLOGICAL INFORMATION**

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**-- ENVIRONMENTAL TOXICITY --**

**Ecotoxicity:** Not determined.

**-- ENVIRONMENTAL FATE --**

**Persistence and Degradability:** Not determined.

**Bioaccumulative Potential:** None.

**Mobility in Soil:** Not determined.

**Other Adverse Effects:** None identified.

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**SECTION 13 – DISPOSAL INFORMATION**

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Do not empty into drains; dispose of this material and its container as non-hazardous waste.

This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. This material, if discarded, should be considered a European non-hazardous waste in accordance with Directive 91/689/EC.

European Waste Catalog Code (EWC-code): 13 01 12

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**SECTION 14 – TRANSPORTATION INFORMATION**

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<b>UN Number</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	Not regulated.
<b>Transport Hazard Class</b>	Not regulated.
<b>Package Group</b>	Not regulated.
<b>Marine Pollutant</b>	No
<b>Special Precautions</b>	None

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**SECTION 15 – REGULATORY INFORMATION**

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**-- Global International Chemical Inventories --**

**USA** All components of this material are on the US TSCA Inventory or are exempt.

**Canada** All components of this material are DSL listed or are exempt.

**-- Other U.S. Federal Regulations --**

**TSCA 8(b) Inventory:** Decanoic Acid, Diethylene Glycol, Diethanolamine

**CERCLA Hazardous Substance:** Diethanolamine

**SARA 313:** Diethanolamine

**SARA 311 Classifications**

Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No
Immediate (Acute) Hazard	Yes
Delayed (Chronic) Hazard	Yes

**-- State Regulations --**

<b><u>Component</u></b>	<b><u>CAS#</u></b>	<b><u>State RTK</u></b>	<b><u>Range % by wt.</u></b>
Diethylene Glycol	111-46-6	PA	5% - 10%
Morpholine	110-91-8	MA, NJ, PA	2% - 5%
Diethanolamine	111-42-2	MA, PA	2% - 5%

**Cal. Prop. 65** This product does contain chemicals known by the State of California to cause cancer and/or birth defects: diethanolamine

**-- Other / International --**

**Harmonized Tariff Schedule Number** 3811.19.0000

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**SECTION 16 – OTHER INFORMATION**

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**Label text:**

**Handling:** Handle and open container with care. Avoid contact with skin.

**First Aid:**

**Eye:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin:** After contact with skin, take off immediately all contaminated clothing, wash immediately with plenty of soap and water.

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

**Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious).

**Fire:** In case of fire use dry chemical, carbon dioxide, foam, steam, or water fog.

**Spill or Leak:** To clean the floor and all objects contaminated by this material use an inert absorbent material.

**Prepared By:** Mark D. Latunski  
**Date Revised:** 04 April 2013  
**Supersedes:** 15 January 2012  
**Date Prepared:** 21 November 2002

The information provided herein is believed to be accurate to the best of the company's knowledge as of the date of its issue. We do not warrant or guarantee the information provided and will not be held liable for any loss or damage from its use.

**Date Translated:** 04 April 2013

This SDS originated in English. Context errors associated with the translation to other languages are avoided to the best of our ability. If the translation is unclear, please reference the English version.