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This MSDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I – IDENTIFICATION

Product Name: FR WG 200-D
Chemical Identification: Fire Retardant Water Glycol Hydraulic Fluid
CAS #: Mixture

SECTION II – INGREDIENTS AND HAZARD CLASSIFICATION

Chemical Name: Diethylene Glycol
CAS Number: 111-46-68
Percentage Range: < 40 %
Hazardous Per 29 CFR 1910.1200: Yes
Exposure Standard: None established

Chemical Name: Polyalkylene Glycol
CAS Number: 52624-57-4
Percentage Range: < 13 %
Hazardous Per 29 CFR 1910.1200: Yes
Exposure Standard: None established

Chemical Name: Dipae
CAS Number: 96-80-0
Percentage Rate: < 3 %
Hazardous Per 20 CFR 1910.1200: Yes
Exposure Standard: None established

Chemical Name: D/I Water
CAS Number: 7732-18-5
Percentage Rate: 35 – 45 %
Hazardous Per 20 CFR 1910.1200: No
Exposure Standard: None established

SECTION III – PHYSICAL DATA

Boiling Point/Melting Point @ 760 Mm Hg: 215° F
Pour Point: -53° F

Specific Gravity or Bulk Density: 8.99 lbs/gal.
Evaporation Rate: No data
Vapor Pressure Mm Hg @ 20° C: Not applicable
Solubility In Water: Complete
pH: 9.6
Appearance: Slightly hazy, red liquid
Odor: Glycol type
Intensity: **Slight**

SECTION IV – FIRE AND EXPLOSION DATA

Flash Point: None *
Auto-ignition Temp.: None **
Flammability Limits in Air (% by Vol.): Lower: N/A Upper: N/A
Extinguishing Media: Use water fog, foam or CO_2 extinguishing media.
Hazardous Decomposition Products: None
Firefighting Procedures: Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

*****After water has been completely evaporated, flash point is 250° F.
******After water has been completely evaporated, auto-ignition temperature is 775° F.

SECTION V – REACTIVITY DATA

Hazardous Polymerization: Will not occur
Stability: Stable
Incompatibility: N/A
Hazardous Decomposition Products: N/A
Conditions to Avoid: Corrosive to tin, lead, zinc, magnesium and calcium.
Oxidizer: No

SECTION VI – HEALTH HAZARD INFORMATION

This product contains no ingredients listed as carcinogens by NTP, IARC, or OSHA.

This product contains no toxic chemical at a level that is reportable under SARA Title III, Section 313.

Routes of Absorption: The primary routes of exposure to this material are eye or skin contact, and inhalation. Prolonged or repeated skin or eye contact may result in irritation. Vapors or mists of diethylene glycol may be irritating to the respiratory tract. The effects of ingestion include nausea, diarrhea, dizziness, drowsiness, kidney damage and possible coma. Chronic overexposure to diethylene glycol may result in kidney and liver damage.

Existing Medical Conditions Aggravated by Exposure to this Material: No information found for this mixture.

Animal Toxicology Acute Toxicity:
Rat, Oral Ld: >5000 mg/kg
Rabbit, Skin Irritation: Irritating
Rabbit, Eye Irritation: Irritating

Aquatic Toxicity: No data available.
Fish Toxicity: LC >1000 mg/1 (Fathead Minnow, 96 Hr.)

First Aid:
Eyes: Immediately flush with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops call a physician.
Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.
Ingested: If swallowed dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.
Inhaled: Move to fresh air. Aid in breathing if necessary, and get medical attention.
Medical Conditions Aggravated by Exposure: None known.

SECTION VII- PRECAUTIONS FOR SAFE HANDLING AND USE

Store in a cool dry place. Keep container closed. Avoid prolonged contact with skin or clothing. Avoid extreme heat.

This product does not contain and is not manufactured with Class I or Class II ozone-depleting substances.

Respiratory Protection: If vapors or mists are generated wear NIOSH/MSHA approved respirator.
Ventilation: Use local ventilation to limit exposure.
Protective Clothing: Gloves, coveralls, apron, boots as necessary to prevent skin contact.
Eye Protection: Chemical goggles; also wear a face-shield in compliance with OSHA regulations if splashing hazard exists.
Other Protective Equipment: Not applicable.

NFPA Code:	HEALTH - 1	FLAMMABILITY - 0	REACTIVITY - 0
HMIS Code:	HEALTH – 1	FLAMMABILITY – 0	REACTIVITY – 0

Caution!!! Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash with water.
Handling & Storage: Avoid contact with eyes and prolonged or repeated contact with skin. Wear safety glasses. Minimize exposure through good hygienic practices.
First Aid:

Eyes: Flush thoroughly with water and get immediate medical attention.
Skin: Wash thoroughly with soap and water.
Inhaled: If affected, remove to fresh air. If breathing is difficult get medical attention.
Ingested: Dilute with water and induce vomiting**.** Call a physician immediately. Do not give anything by mouth to an unconscious person.

SECTION VIII – CONTROL MEASURES

Spill Mitigation Procedures:
Spill should be contained, solidified, and placed in suitable containers for disposal. This material is not regulated under RCRA or CERCLA ("superfund").
Waste Disposal Method: DO NOT discharge into waterways or sewer systems. Dispose of in accordance with all local, state and federal regulations.
Waste Disposal: This product does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of subpart C, nor is it listed as a hazardous waste under subpart D. As a non-hazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by incineration. Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes.

SECTION IX – TRANSPORTATION INFORMATION

Dot Hazard Classification:	Not Regulated
ICAO/IATA	Not regulated
IMDG (Ambient)	Not regulated
IMDG (Elevated)	Not determined
IMDG EMS	Not Regulated
IMDG MFAG	Not Regulated
IMO Marine Bulk	Not determined
USCG Compatibility	Not determined
TDG Bulk (Ambient)	Not regulated
TDG Bulk (Elevated)	Not available
TDG Non-Bulk	Not regulated
U.S. DOT Bulk (Ambient)	Not regulated
U.S. DOT Bulk (Elevated)	Not available
U.S. DOT Non-Bulk	Not regulated
DOT NAERG	Not Regulated

SECTION X – REGULATORY INFORMATION

U.S. TSCA Inventory:	All components of this material are on the US TSCA Inventory.
Other TSCA Reg.:	None known
SARA Ext. Haz. Subs**.**	**This product does not contain greater than 1.0% of any**

chemical substance on the SARA Extremely Hazardous Substances list.

Sara Section 313: **This product does not contain greater than 1.0% (greater** than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

TDG Regulated Limits: None known

CERCLA Hazardous Substances: None known**.**

Cal.Prop. 65: This product in not known to contain any chemicals known to the state of California to cause cancer or birth defects. However, we do not conduct routine analysis for all listed materials**.**

U.S. Fuel Registration: Not applicable.

U.S. Dept. of Agriculture: This product has not been filed with the USDA to support H2 approvals.

U.S. Tariff Heading Number: Not available

Schedule B Number: Not available

FDA Approval: Not applicable

EEC EINECS: All components are incompliance with the EC Seventh Amendment Directive 92/32/EEC.

Finnish Registration Number: Not registered

Sweden Registration Number: Not registered

Norway Registration Number: Not registered

Danish Registration Number: Not registered

Switzerland Bag T Registration Number: Not registered

Japan METI All components are in compliance with the Chemical Substances Control Law of Japan.

Australia: All components are in compliance with chemical notification requirements in Australia.

Canada: All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Switzerland: All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland**.**

Korea: All components are in compliance in Korea.

Korean Registration Number: Not registered

Philippines: All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

China: This product may require notification in China.

China Registration Number: Not registered
New Zealand Registration Number: Not registered
Malta Registration Number: Not registered
Ukraine Registration Number: Not registered

SECTION XI – SPECIAL PRECAUTIONS

Prepared By: Mark D. Latunski
Date Revised: 08/11/2008
Supersedes: 01/18/2007
Date Prepared: 11/29/2005

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.