

## Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

Product Name: **Hydroflow**  
Application: Hydraulic fluid  
Chemical Description: Water glycol hydraulic fluid

Manufacturer: Vaughan Industries, Inc.  
Address: 8490 Lyndon Detroit, MI 48238  
Emergency Phone: 313 935 2040

### 2. HAZARD IDENTIFICATION

GHS CLASSIFICATION: skin irritation (3) target organ (3)



SIGNAL WORD: Warning

HAZARD STATEMENTS: May cause eye, skin and respiratory tract irritation; May cause liver damage based on animal data; May cause kidney damage based on animal data; May cause lung damage based on animal data

PRECAUTION STATEMENTS: If inhaled: Remove victim to fresh air and keep at rest in a

position comfortable for breathing; If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing; If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water; Wash contaminated clothing before reuse; If swallowed: Rinse mouth. Do not induce vomiting

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	LISTED HAZARD	CAS No.
Diethylene glycol	None	111-46-6
Polyalkylene glycol	None	52624-57-4
Morpholine	Hazardous	100-91-8

### 4. FIRST AID PROCEDURES

EYES: Flush with large amounts of water. Seek medical attention.

SKIN: Wash with water. If irritation persists, seek medical help.

RESPIRATORY: Move to fresh air. If necessary, give oxygen and seek medical attention.

INGESTION: Consult a physician.

### 5. FIRE HAZARD DATA

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam

SPECIAL FIREFIGHTING PROCEDURE: None

### 6. ACCIDENTAL RELEASE MEASURES

ACTION FOR SPILLS: Collect as much as possible for reuse. Place remainder in suitable container for disposal.

### 7. HANDLING AND STORAGE

VENTILATION: Equivalent to outside

RESPIRATORY PROTECTION: Normally not required

EYE PROTECTION: Safety glasses or goggles are always recommended

GLOVES: Plastic or rubber as used for washing

PROTECTIVE CLOTHING: Clean work clothes

STORAGE: Store in dry area at temperatures above freezing. Use chemical goggles and gloves when transferring concentrates

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: n/m

ENGINEERING CONTROLS: Use with adequate ventilation. Ensure eye wash and safety shower stations are available near areas where product is used.

PERSONAL PROTECTION EQUIPMENT: Safety glasses must be worn. Maintain eye wash facilities in the work area. Wear gloves impervious to conditions of use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Red, hazy liquid  
pH: 9.6  
INITIAL BOILING POINT AND RANGE: > 220 °F  
SOLUBILITY IN WATER: soluble  
FLASH POINT: 370 °F  
VAPOR PRESSURE: n/m  
EVAPORATION RATE: Slower than butyl acetate

ODOR: essentially odorless  
VISCOSITY: n/m  
PARTITION COEFF: n-octanol/water: n/m  
AUTOIGNITION TEMPERATURE: n/m  
VAPOR DENSITY: Heavier than air  
FLAMMABLE LIMITS: LFL: n/m UFL: n/m  
DECOMPOSITION TEMPERATURE: n/m

ODOR THRESHOLD: n/m  
MELTING/FREEZING PT: n/m  
RELATIVE DENSITY: 1.07

### 10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY: Strong oxidizers

### 11. TOXICOLOGICAL INFORMATION

THRESHOLD LIMIT VALUE: n/m

PRECAUTIONARY STATEMENT: No data available to indicate product may be an irritant.

EYE CONTACT: non-irritant (Rabbit: OECD Guideline 405)

SKIN CONTACT: non-irritant (Rabbit: OECD Guideline 404)

RESPIRATORY: May cause irritation is aerosolized

INGESTION: LD50; > 2000 mg/kg (Rats)

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

INGREDIENTS LIST AS CARCINOGEN: None listed

### 12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination.

ENVIRONMENTAL FATE: Bioaccumulation is not expected to be significant. This product is made from biodegradable components (OECD 301A).

ECOLOGICAL DATA: Fish: LC50, 96 hours, > 10,000 mg/L Algae: n/m Daphnia: n/m

This material is not expected to be dangerous to the environment.

### 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

### 14. TRANSPORTATION INFORMATION

#### US DEPARTMENT OF TRANSPORTATION

Proper Shipping Name: n/a

UN/NA Number: n/a

Labels Required: None

Hazard Class: n/a

Packing Group: n/a

### 15. REGULATORY INFORMATION

SARA: This product contains no material regulated under SARA Title III Section 313.

US CERCLA REPORTABLE QUANTITY: None

US TSCA INVENTORY STATUS: The components of this product are TSCA listed.

OTHER US FEDERAL REGULATIONS: None

### 16. OTHER INFORMATION

The data and recommendations presented herein are based upon our research and that of others and are believed to be accurate. No guarantee of their accuracy is made, and they are distributed without warranty, express or implied. The person receiving them shall make their own determination of the suitability thereof for their particular purpose. n/a: not available n/m: not measured

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