

# Safety Data Sheet

Issue Date: 13-Dec-2012

Revision Date: 15-Sep-2017

Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Hydro Flow

### Other means of identification

**SDS #** DSI-059

**Product Code** 6905, 69055

### Recommended use of the chemical and restrictions on use

**Recommended Use** Hydraulic fluid.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Diamond Shine, Inc  
1340 E. 289th St  
Wickliffe, OH 44092

### Emergency Telephone Number

**Company Phone Number** 800-843-7627  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Red liquid

**Physical State** Liquid

**Odor** Amine-like

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

### Signal Word

**Danger**

### Hazard Statements

Harmful if swallowed  
Causes skin irritation  
Causes serious eye damage  
May cause damage to organs through prolonged or repeated exposure



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a poison center or doctor/physician  
 IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash it before reuse  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Diethylene glycol	111-46-6	30-60
2-(Dimethylamino) ethanol	108-01-0	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Wash skin thoroughly with mild soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation occurs.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Call a physician if you feel unwell.
<b>Ingestion</b>	Seek medical attention immediately. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Do not induce vomiting.

**Most important symptoms and effects**

<b>Symptoms</b>	May cause skin and eye irritation. Inhalation symptoms may include dizziness and headache. Nausea.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Water spray (fog). Foam. Dry chemical. Sand/earth.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

None known.

**Hazardous Combustion Products** Carbon oxides.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required.

**Environmental Precautions** Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Contain and collect with an inert absorbent and place into an appropriate container for disposal. Dispose of in accordance with federal, state and local regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Use only in well-ventilated areas. Use in accordance with product label instructions. Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store at high temperatures. Store away from incompatible materials.

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** No exposure limits noted for ingredient(s)

### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Splash goggles or safety glasses.

**Skin and Body Protection** Wear protective gloves. Wear protective clothing to minimize skin contact.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Amine-like
<b>Appearance</b>	Red liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Red		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	9.5	
<b>Melting Point/Freezing Point</b>	< -40 °C / <-40 °F	
<b>Boiling Point/Boiling Range</b>	Foams	
<b>Flash Point</b>	149 °C / 300 °F	Pensky-Martens Closed Cup (PMCC)
<b>Evaporation Rate</b>	Not available	
<b>Flammability (Solid, Gas)</b>	n/a-liquid	
<b>Upper Flammability Limits</b>	Not determined	
<b>Lower Flammability Limit</b>	Not determined	
<b>Vapor Pressure</b>	<0.01 mm Hg	@ 20°C (68°F)
<b>Vapor Density</b>	>1.0	(1=Water)
<b>Specific Gravity</b>	1.0874	
<b>Water Solubility</b>	Completely soluble	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Auto-ignition Temperature</b>	260 °C / 500 °F	
<b>Decomposition Temperature</b>	Not determined	
<b>Kinematic Viscosity</b>	Not determined	
<b>Dynamic Viscosity</b>	35 cSt	
<b>Explosive Properties</b>	Not determined	
<b>Oxidizing Properties</b>	Not determined	

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### Conditions to Avoid

Avoid high temperatures.

### Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Eye Contact** Causes serious eye damage.

**Skin Contact** Causes skin irritation.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene glycol 111-46-6	= 12565 mg/kg ( Rat )	= 11890 mg/kg ( Rabbit )	-
2-(Dimethylamino) ethanol 108-01-0	= 1803 mg/kg ( Rat )	= 1370 µL/kg ( Rabbit )	= 6.1 mg/L ( Rat ) 4 h = 1641 ppm ( Rat ) 4 h

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diethylene glycol 111-46-6		75200: 96 h Pimephales promelas mg/L LC50 flow-through	EC50 = 29228 mg/L 15 min	84000: 48 h Daphnia magna mg/L EC50
2-(Dimethylamino) ethanol 108-01-0	35: 72 h Desmodesmus subspicatus mg/L EC50	81: 96 h Pimephales promelas mg/L LC50 static		98.77: 48 h Daphnia magna mg/L EC50

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

Chemical Name	Partition Coefficient
Diethylene glycol 111-46-6	-1.98
2-(Dimethylamino) ethanol 108-01-0	-0.55

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### **Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

### DOT

Not regulated

### IATA

Not regulated

### IMDG

Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA

Listed

#### Legend:

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

### US Federal Regulations

#### SARA 313

Not determined

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol 111-46-6			X
2-(Dimethylamino) ethanol 108-01-0	X	X	X

## 16. OTHER INFORMATION

#### NEPA

#### Health Hazards

1

#### Flammability

0

#### Instability

0

#### Special Hazards

Not determined

#### HMIS

#### Health Hazards

1

#### Flammability

0

#### Physical Hazards

0

#### Personal Protection

Not determined

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Revision Note:

Information in Section 15

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet