MATERIAL SAFETY DATA SHEET

M S D S

HydraForce 2263
Date Effective 3/02/2015

Kinetic Hydrate Inhibitor
Line Freezing Prevention Chemistry; Field Ready

Section One: Product Identification

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>HydraForce 2263</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Family</td>
<td>Hydrate Inhibitor</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>Confidential</td>
</tr>
<tr>
<td>CAS Number</td>
<td>Proprietary Blend</td>
</tr>
</tbody>
</table>

Section Two: Composition Information on Hazardous Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Component Common Name</th>
<th>TWA</th>
<th>STEL</th>
<th>PEL</th>
<th>Weight Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methyl Alcohol</td>
<td>200 ppm</td>
<td>250 ppm</td>
<td>200 ppm</td>
<td>70 - 80%</td>
</tr>
<tr>
<td>Confidential</td>
<td>Proprietary Ingredients</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>20 - 30%</td>
</tr>
</tbody>
</table>

Schedule B, Harmonized Tariff Number for Import/Export
3402903000  Surface-active preparations, containing any aromatic or modified aromatic surface active agents

Section Three: Hazards Identification

Routes of Entry: Danger; Cannot be made non-poisonous. Avoid skin contact, eye contact, inhalation, and ingestion.
Potential Health Effects: This product may cause eye, skin, or respiratory irritation; harmful if inhaled.
Carcinogenicity (NTP): This product is not believed to be carcinogenic.
Carcinogenicity (IARC): Possible; human evidence inadequate.
Carcinogenicity (OSHA): This product is not believed to be carcinogenic.

Section Four: First Aid Measures

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Flush eyes with water for at least 15 minutes. Seek medical attention.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Remove contaminated clothing. Flush skin with water.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Drink 3-4 glasses of water. Do not induce vomiting. Seek medical help immediately.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call a physician.</td>
</tr>
</tbody>
</table>

Section Five: Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flammable Limits, Flash Point</th>
<th>64° F, PMCC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Limits in Air - LEL</td>
<td>6.0% by Volume</td>
</tr>
<tr>
<td>Flammable Limits in Air – UEL</td>
<td>36.0% by Volume</td>
</tr>
<tr>
<td>Auto Ignition Temperature</td>
<td>&lt;500° F</td>
</tr>
<tr>
<td>General Hazards</td>
<td>Excessive heats, sparks, and open flames.</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Dry chemical, carbon dioxide, water spray.</td>
</tr>
<tr>
<td>Fire Fighting Equipment</td>
<td>Wear self contained breathing apparatus and protective clothing.</td>
</tr>
<tr>
<td>Fire and Explosion Hazards</td>
<td>Flammable material; handle appropriately.</td>
</tr>
<tr>
<td>Hazardous Combustion Products</td>
<td>Toxic gases may be released by thermal degradation.</td>
</tr>
</tbody>
</table>

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Sensitivity to Mechanical Impact  Not expected.
Sensitivity to Static Discharge  Flammable liquid; prevent static discharges or sparks.
Additional Information  No additional information available.

Section Six: Accidental Release Measures
Accidental Release Measures  Eliminate all ignition sources. Contain spill and salvage as much material as possible. Then pick up the remaining with absorbent.

Section Seven: Handling and Storage
Handling and Storage Guidelines  Keep container tightly closed. Do not consume food, drink, or tobacco in areas where they may become contaminated by this material. Keep away from heat, sparks, and open flames.

Section Eight: Exposure Control/Personal Protection
Personal Protective Equipment  Wear appropriate equipment to prevent probability of exposure.
Eye Protection  Goggles or glasses with side shields with a face shield on top.
Skin Protection  Wear impervious gloves as a standard handling procedure.
Respiratory Protection  Use NIOSH approved respiratory protection where exposure levels exceed regulatory limits.
Engineering Controls  Do not aerosolize.
Mechanical Exhaust  Explosion proof exhaust required in confined spaces.
Local Exhaust  Explosion proof exhaust is recommended to keep fumes from concentrating.
Emergency Response Protection  Dangerous - highly flammable liquid and vapor! Specialized equipment for fire protection should be utilized.

Section Nine: Physical and Chemical Properties
Physical Form  Liquid
Color  Light Straw to Clear
Odor  Mild
Boiling Point  > 160° F
Melting Point  NA
Freezing Point  < -40° F
Specific Gravity  0.84 (+/- 0.02)
Bulk Density  7.0 lbs. / gallon
pH  5.0 – 7.0
Solubility in Water  Soluble
Evaporation Rate  > 4.0 (n-Butyl Acetate = 1)
Vapor Pressure  > 100 (mm Hg @ 68° F)
Vapor Density  > 1.0 (Air = 1)
Volatile Organic(s)  < 650 gm/1000 ml.

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Section Ten: Stability and Reactivity

Stability Stable at normal temperatures and operating conditions.

Incompatibilities High temperatures, incompatible materials, ignition sources, & oxidizers.

Decomposition Decomposition yields carbon monoxide, carbon dioxide, formaldehyde.

Polymerization Polymerization will not occur.

Section Eleven: Toxicological Information

Eye Irritation Eye contact may be painful and irritating.

Skin Irritation Prolonged and repeated skin exposure may be painful and irritating.

Inhalation Toxicity Inhalation of this product during manufacturing may be irritating.

Sensitization Not evaluated.

Chronic/Carcinogenicity Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Reproduction Spermatogenesis: Intraperitoneal, Mouse: TDLo= 5 g/kg.

Mutagenicity DNA inhibition: Human Lymphocyte = 300 mmol/L.

Acute Oral Effects Poisonous; cannot be made non-poisonous.

Acute Dermal Toxicity Poisonous; may be absorbed through intact skin.

Additional Information Teratogenicity: Effects on Newborn: Behavioral, Oral, rat: TDLo= 7,500 mg/kg

Section Twelve: Ecological Information

Ecotoxicity Fathead Minnow: 29.4 g/L; 96 Hr. LC50 Goldfish: 250 ppm.

Biological Oxygen Demand (BOD<sub>5</sub>) Not evaluated.

Chemical Oxygen Demand Not evaluated.

Activated Sludge Respiration Inhibition Test Not evaluated.

Additional Information Dangerous to aquatic life in high concentrations.

Section Thirteen: Disposal Considerations

Container Disposal Management Dispose of in accordance with local, state, and federal regulations.

RCRA Hazard Class U154 – Ignitable Waste.

Waste Disposal Method Dispose of in accordance with local, state, and federal regulations.

Section Fourteen: Transport Information

DOT Hazard Class Flammable Liquid.

DOT Proper Shipping Name Flammable Liquid, N.O.S., (Contains Methyl Alcohol), 3, UN 1993, PG II – Guide No. 128

Packaging Group PG II

UN Number UN 1993

NA Number NA

Packaging Size Carboys/Pails, Drums, and Bulk.

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Section Fifteen: Regulatory Information

SARA 302/304 RQ 6,250 lbs. based on Methyl Alcohol in blend.
SARA 302/304 TPQ NA
SARA 311/312 Acute Yes
SARA 311/312 Chronic Yes
SARA 311/312 Fire Yes
SARA 311/312 Pressure NA
SARA 311/312 Reactivity NA
SARA 313 List This material contains Methyl alcohol, which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
CERCLA RQ 6,250 lbs. based on Methyl Alcohol in blend.
TSCA Status All components are registered on TSCA inventory.
CAA Methyl Alcohol is listed as a hazardous air pollutant (HAP).
CWA NA

Section Sixteen: Other Information

HMIS Hazard Classification
Classification Code 2 Health 3 Flammability 0 Reactivity 0 Personal Protection D

NFPA Hazard Classification
Classification Code or Markings 2 Health 3 Flammability 0 Instability 0 Special Hazards

Explanation of NFPA Special Symbols

OX Oxidizer; a chemical that can increase the rate of combustion or fire.
W Reactive with water; avoid using water when fighting a fire involving material.
Corrosive material(s); can be corrosive in either an acid or alkaline state.
Poison or highly toxic material(s).
Explosive material(s); redundant notation of instability.
Radioactive material(s); extremely harmful to handle or inhale.

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Explanation of Abbreviations

BOD Biological Oxygen Demand, 5-Day Test Standard.
CAA Clean Air Act.
CAS Chemical Abstracts Service.
CERCLA Comprehensive Environmental Response, Compensation & Liability Act.
CONF Confidential.
CWA Clean Water Act.
DOT U.S. Department of Transportation.
EPA U.S. Environmental Protection Agency.
HMIS Hazardous Materials Identification System.
IARC International Agency for Research on Cancer.
LEL Lower Explosive Limits.
Mg/M³ Milligrams per Cubic Meter.
Mm/Hg Millimeters of Mercury; Measurement of Air Pressure.
NA Not Applicable.
ND Not Determined.
NE None Established.
NTP National Toxicology Program.
OSHA U.S. Occupational Health and Safety Administration.
PEL Permissible Exposure Limit.
pH Negative Logarithm of the Hydrogen Ion; Measurement of Acidity or Alkalinity.
PMCC Pensky-Martens Closed Cup Flash Point Test.
PPM Parts per Million.
RQ Release Quantity.
SARA Superfund Amendments and Reauthorization Act.
STEL Short-Term Exposure Limit.
TLV Threshold Limit Value.
TPQ Threshold Planning Quantities.
TSCA Toxic Substances Control Act.
TWA Time-Weighted Average or Absolute Value.
UEL Upper Explosive Limits.
VOC Volatile Organic Compounds.

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