



# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: VIPER 11 CH43

## SECTION 1 COMPANY AND PRODUCT IDENTIFICATION

Distributed By: Hydro-Force Manufacturing, 4282 S 590 W, Salt Lake City, Utah 84123  
Company Phone Number: 801-268-2673  
Emergency Phone Number: 1-800-535-5053 (Infotrac)  
Date Prepared: 02/01/2011

Hazard Rating (Zero=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)  
Fire: 0 Health: 1 Reactivity: 0

## SECTION 2 COMPOSITION/INFORMATION ON COMPONENTS

| <u>HAZARDOUS INGREDIENTS:</u>         | <u>TLV</u> | <u>OSHA PEL</u> |
|---------------------------------------|------------|-----------------|
| Sodium Metasilicate (CAS # 6834-92-0) | N/E        | N/E             |

## SECTION 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Physical Properties:** clear solution with mild odor

### IMMEDIATE HEALTH EFFECTS

**Eyes:** Overexposure may cause irritation to eyes.

**Skin:** Prolonged and repeated contact may cause irritation to skin.

**Inhalation:** Inhalation may cause irritation of upper respiratory passages.

**Ingestion:** Single dose oral toxicity is low. Swallowing large amounts may be harmful.

**PRIMARY ROUTES OF ENTRY:** Eyes, skin contact/absorption, inhalation or ingestion.

**SIGNS/SYMPTOMS OF OVEREXPOSURE:** Gastrointestinal irritation (nausea, vomiting, diarrhea), and/or irritation to the skin, eyes, nose, throat, and respiratory tract.

**TARGET ORGAN EFFECTS:** Irritation of the skin and eyes. Irritation of lungs possible if mists/aerosols are inhaled.

**REPRODUCTIVE/DEVELOPMENTAL INFORMATION:** No data available.

**CARCINOGENIC INFORMATION:** None of the ingredients of this material are listed as carcinogens by IARC, NTP, or OSHA.

**LONG TERM EFFECTS:** No data available.

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### **SECTION 4 FIRST AID MEASURES**

**EYES:** Flush eyes with water for at least 15 minutes. If irritation persists, consult a physician.

**SKIN:** If irritation occurs, flush skin with water for at least 15 minutes. If irritation persists, consult a physician

**INHALATION:** If symptoms of overexposure develop, remove to fresh air. If symptoms persist, consult a physician.

**INGESTION:** Give 8 to 16 ounces of water to dilute substance. Do not induce vomiting. Consult a physician or local Poison Control Center. Never give anything by mouth to an unconscious person.

### **SECTION 5 FIRE FIGHTING MEASURES**

**FLASHPOINT (° Fahrenheit):** >200°F

**EXPLOSIVE LIMITS:** No data available.

**AUTOIGNITION TEMPERATURE:** No data available.

**HAZARDOUS PRODUCTS OF COMBUSTION:** In the event of fire, the following may be released: Carbon dioxide and/or carbon monoxide, oxides of nitrogen and carbon.

**EXTINGUISHING MEDIA:** Water spray, foam, dry chemical powder of carbon dioxide.

**FIRE FIGHTING INSTRUCTIONS:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

**NFPA/HMIS RATINGS:** Health: 1, Flammability: 0, Reactivity: 0

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Contain with chemical absorbent material. Do not dispose of on the land, in surface waters, or in storm drains. Small spills and waste may be flushed into a waste treatment sewer where local regulations permit. Larger quantities should be collected for reuse or consigned to a licensed hazardous waste hauler for disposal in accordance with federal, state and local regulations

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## SECTION 7 HANDLING AND STORAGE

Store out of reach of children. Keep container closed. Store in a cool, dry location. Avoid freezing or extended storage in high temperatures and away from strong oxidizers and acid products.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

|                           |   |
|---------------------------|---|
| Respiratory Protection... | None normally needed.   |
| Protective Clothing.....  | None normally needed.   |
| Eye Protection.....       | None normally needed.   |
| Ventilation.....          | Normal room ventilation should suffice  |
| Storage.....              | Store above 55°F. Store out of reach of Children. Keep container tightly closed |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Light green, clear solution/ mild amine odor

**RTU pH:** 11.0 to 12.0

**VAPOR PRESSURE:** No data available.

**VAPOR DENSITY:** No data available.

**BOILING POINT:** 212° F

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** (water = 1) approximately 1

**DENSITY:** .9975

## SECTION 10 STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable.

**CONDITIONS TO AVOID:** None with proper storing and handling.

**MATERIALS TO AVOID:** Strong oxidizing materials.

**HAZARDOUS DECOMPOSITION:** Upon combustion, the following may be produced: Carbon dioxide and/or carbon monoxide, oxides of nitrogen and sulfur.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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### **SECTION 11 TOXICOLOGICAL INFORMATION**

**ROUTES OF EXPOSURE:** Skin absorption, eye contact, inhalation, and ingestion.

**CARCINOGENICITY:** None of the components of this material are listed as carcinogens by IARC, NTP, or OSHA.

**TERATOGENICITY, MUTAGENICITY, OR OTHER REPRODUCTIVE EFFECTS:** No data available.

**CONDITIONS AGGREGATED BY EXPOSURE:** No data available.

**SYNERGISTIC MATERIALS:** No data available.

### **SECTION 12 ECOLOGICAL INFORMATION**

**Sodium Metasilicate** A 96 hour median tolerance for fish (*Gambusia affinis*) of 2320 ppm; a 96 hour median tolerance for water fleas (*Daphnia magna*) of 247 ppm; a 96 hour median tolerance for snail eggs (*Lymnaea*) of 632 ppm; and a 96 hour median tolerance for Amphipoda of 160 ppm.

### **SECTION 13 DISPOSAL CONSIDERATIONS**

Do not dispose of on the land, in surface waters, or in storm drains. Small spills and waste may be flushed into a waste treatment sewer where local regulations permit. Larger quantities should be collected for reuse or consigned to a licensed hazardous waste hauler for disposal in accordance with federal, state and local regulations. **All disposal must be in accordance with all federal, state and local regulations.**

### **SECTION 14 TRANSPORT INFORMATION**

No restrictions for Ground, Air, or Maritime Transportation in accordance with 49 CFR parts 100-185.

### **SECTION 15 REGULATORY INFORMATION**

All components are listed on TSCA

### **16. OTHER INFORMATION**

This product has no established regulatory information. All regulatory information given is based on individual components of the mixture by component number. While this information and recommendations set forth herein are believed to be accurate and reliable, it is provided without warranty regarding its accuracy. HYDRO-FORCE MANUFACTURING MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. Users must determine safe conditions for use and assume liability for any loss, injury, damage or expense resulting from use of this product.

N/A= Not applicable N/D= Not determined N/E= Not established