



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: VIPER VENOM CR22

SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

PRODUCT NAME: Viper Venom

Manufactured By:

Hydro-Force Manufacturing

4282 W 590 W

Salt Lake City, Utah 84123

Company Phone Number: 801-268-2673

Emergency Phone Number: 1-800-535-5053 (Infotrac)

Date Prepared: 2/1/2011

Hazard Rating (Zero=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Fire: 0 Health: 2 Reactivity: 0

SECTION 2: INGREDIENTS

HAZARDOUS INGREDIENTS:

TLV

OSHA PEL

Glycol Ether EB (CAS # 111-76-2)

20ppm

240 mg/m³ 50 ppm SKIN

Glycol Ether DB (CAS # 112-34-5)

N/E

N/E

Sodium Hydroxide (CAS # 1310-73-2)

2 mg/m³

2 mg/m³

SECTION 3: HEALTH HAZARD INFORMATION

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.

CARCINOGENICITY:

NTP: Known – No; Anticipated – No

OSHA: TLV-A3 for Glycol Ether EB

IARC: Not classifiable as to carcinogenicity to humans.

LONG TERM EFFECTS: No data available.

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SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

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, EXPLOSION & REACTIVITY DATA

FLASH POINT: Nonflammable

EXPLOSIVE LIMITS: No data available.

AUTOIGNITION TEMPERATURE: No data available.

HAZARDOUS PRODUCTS OF COMBUSTION: Product is not flammable. Use after, carbon dioxide, dry powder or other media appropriate for materials actually involved in fire.

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

FIRE FIGHTING INSTRUCTIONS: None.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Extract liquid with cleaning machine or absorb liquid on inert material such as paper, vermiculite, floor absorbent, and dispose of in accordance with local regulations.

LARGE SPILL: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, contain area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be absorbed with inert material such as sand, clay, earth, or floor absorbent, and shoveled into containers. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify the proper authorities as required that a spill has occurred.

SECTION 7. PRECAUTIONS FOR 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

Ventilation System..... Room ventilation is normally satisfactory. Mechanical assist may be required when vapors or mist are generated.

Personal Respirators..... Respirator recommended if product is misted. Use NIOSH/MSHA approved respiratory protection.

Skin Protection..... Rubber gloves are recommended & other clothing that will prevent contact with this product.

Eye Protection..... Use safety glasses.

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SECTION 9: PHYSICAL DATA

Odor: Slight lemon odor.

Physical State: Liquid.

Appearance: Clear yellow

pH RTU: 12.5

Specific Gravity: 1.015

Boiling Point: N/D

Freezing/Melting Point: N/E

Vapor Pressure: N/D

Vapor Density: N/D

Solubility in Water: Complete

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: None with proper storing and handling.

MATERIALS TO AVOID: Strong acids and oxidizing materials.

HAZARDOUS DECOMPOSITION: Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids and other unidentified thermal decomposition products from this product or its packaging.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

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

CARCINOGENICITY:

NTP: Known – No; Anticipated – No

OSHA: TLV-A3 for Glycol Ether EB

IARC: Not classifiable as to carcinogenicity to humans.

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

CONDITIONS AGGREGATED BY EXPOSURE: No data available.

SYNERGISTIC MATERIALS: No data available.

TOXICOLOGY: The calculated LD50 of the product is >5,000 mg/kg (oral/rat).

Glycol Ether EB - Oral Rat LD50: 500- 3000 mg/kg Dermal Rabbit LD50: 400 mg/kg; Inhalation Rat LC50: 450 ppm. (4 hours)

Glycol Ether DB – Oral guinea pig LD50: 2000 mg/kg. Dermal Rabbit LD50: 2700 mg/kg

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SECTION 12. ECOLOGICAL INFORMATION

Glycol Ether EB

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).

Fish Acute & Prolonged Toxicity

LC50, bluegill (*Lepomis macrochirus*), 96 h: 820 - 1,490 mg/l

LC50, rainbow trout (*Oncorhynchus mykiss*), 96 h: 1,700 mg/l

Aquatic Invertebrate Acute Toxicity

LC50, water flea *Daphnia magna*: 835 mg/l

EC50, water flea *Daphnia magna*, immobilization: 1,600 - 2,500 mg/l

LC50, grass shrimp (*Palaemonetes pugio*), static, 96 h: 5.4 mg/l

LC50, common shrimp *Crangon crangon*, static, 96 h: 550 - 950 mg/l

Aquatic Plant Toxicity

EC50, green alga *Pseudokirchneriella subcapitata* (formerly known as *Selenastrum capricornutum*), biomass growth inhibition, 72 h: 911 mg/l

Toxicity to Micro-organisms

IC50; bacteria: > 1,000 mg/l

Glycol Ether DB

Oxygen Demand Data: BOD-5: 250 mg/g COD (Chemical Oxygen Demand):: 2,080 mg/g

Acute Aquatic Effects Data: 24 h LC-50 (goldfish): 2700 mg/L 96 h LC-50 (bluegill sunfish): 1300 mg/L

Sodium Hydroxide

This material has exhibited moderate toxicity to aquatic organisms. Data provided are for sodium hydroxide.

Freshwater Fish Data:

LC50 brook trout: 25 ppm/24 hr

LC50 king salmon: 48 ppm

Invertebrate Toxicity Data:

EC50 daphnia magna: 100 ppm

EC50 shrimp: 33 100 ppm/48 hr

EC50 cockle: 330 1000 ppm/48 hr

BIODEGRADATION: This material is inorganic and not subject to biodegradation.

PERSISTENCE: This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material is believed to exist in the disassociated state in the environment.

BIOCONCENTRATION: This material is not expected to bioconcentrate in organisms.

ADDITIONAL ECOLOGICAL INFORMATION: This material has exhibited slight toxicity to terrestrial organisms.

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.**

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SECTION 14. TRANSPORTATION

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

SECTION 15. REGULATORY INFORMATION

US Federal Regulations:

All components are listed on TSCA

SARA - Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 –Glycol Ether EB & DB Listed.

SECTION 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