

Bio- Forge® 2-0-3

Material Safety Data Sheet (rev.11/12/09)

**SECTION I**
**PRODUCT IDENTIFICATION**
**NFPA HAZARD RATINGS**

HEALTH HAZARD 0      FIRE HAZARD 0      REACTIVITY 0  
 Based on the National Fire Protection Association rating system  
 (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = High; 4 = Severe)

**SARA/ TITLE III HAZARD CATEGORIES**

Immediate (ACUTE) Health: NO      Reactive Hazard: NO  
 Delayed (Chronic) Health: NO      Fire Hazard: NO

Company Name: STOLLER USA, INC.  
 Address: 4001 W. Sam Houston Parkway, N., Suite 100  
 Houston, Texas 77043-1226 U.S.A.  
 Emergency Phone Number: CHEMTREC In the U.S. and Canada call toll-free 1-800-424-9300  
 From other countries call collect +1-713-527-3887  
 Phone Number for Information: 1-800-539-5283 or 1-713-461-1493  
 Chemical Family: Urea, Potassium salts.  
 Chemical Name & Synonyms: None  
 Formula: Proprietary  
 Trade name & Synonyms: **BIOFORGE**

**SECTION II**
**COMPOSITION/ INFORMATION ON INGREDIENTS**

INGREDIENTS:	CAS#	Approx. %	TLV
Urea	57-13-6	4.3-4.5%	
Potassium Hydroxide	1310-58-3	8.5-9.0%	

**SECTION III**
**HAZARD IDENTIFICATION**

- A. EXPOSURE LIMITS:**  
 1. OSHA Permissible Exposure Limit (PEL): N/ A  
 2. Threshold Limit Value (TLV): N/ A
- B. CARCINOGEN OR POTENTIAL CARCINOGEN:**
- C. EFFECTS OF OVEREXPOSURE:**  
 1. **ACUTE:**  
**EYES:** Contact with product may cause severe irritation and possibly irreversible damage.
- SKIN:** Harmful if absorbed through broken skin. Prolonged exposure may cause deeper damage. May cause discomfort, rash and irritation unless treated promptly.  
**INHALATION:** Prolonged exposure to vapors may cause temporary discomfort of respiratory tract and headache.  
**INGESTION:** May cause nausea, gastrointestinal damage, or even death.
2. **CHRONIC:** Prolonged or repeated inhalation overexposure may cause bronchitis or pneumonia.
- D. ADDITIONAL INFORMATION:**Note to Physician: Symptomatic treatment.

**SECTION IV**
**FIRST- AID MEASURES**

- A. EMERGENCY FIRST AID PROCEDURES:**  
**EYES:** Immediately flush with plenty of clean water for at least 15 minutes. Seek medical attention.  
**SKIN:** Wash thoroughly with soap and water. Seek medical attention if inflammation occurs.  
**INHALATION:** Remove from exposure area from mists or in the event of massive inhalation. Seek medical attention if irritation persists.  
**INGESTION:** Give at least two glasses of milk or water and induce vomiting. Get medical attention.
- B. ADDITIONAL INFORMATION:** Note to Physician: Symptomatic treatment.

## SECTION V

## FIRE AND EXPLOSION DATA

<b>FLASH POINT:</b>	Not Applicable (N/ A)	<b>LEL:</b>	<b>UEL:</b>
<b>FLAMMABLE LIMITS:</b>	N/ A		
<b>EXTINGUISHER MEDIA:</b>	Product is non flammable. May use all means adequate to fight surrounding fire.		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	N/ A		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	None.		

## SECTION VI

## ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:** Recover as much as possible for reuse by scooping. Then use an absorbent inert to pick up all residues and dispose of as a solid waste.

## SECTION VII

## HANDLING AND STORAGE

Keep lid tightly closed. Store in dry area, above freezing and below 100°F, out of direct sunlight. Keep out of reach of children.

## SECTION VIII

## SPECIAL PROTECTION / CONTROL MEASURES

**RESPIRATORY PROTECTION:** Use an OSHA or NIOSH approved respirator.

**VENTILATION:** General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.

**OTHER SPECIAL CLOTHING/ EQUIPMENT:** An eye bath and washing facilities should be available. Wash thoroughly after handling. Do not smoke, eat or chew gum or tobacco when handling chemicals.

## SECTION IX

## PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>BOILING POINT:</b>	100°C (212°F)	<b>VAPOR PRESSURE (mm/Hg):</b>	Not Known
<b>MELTING POINT:</b>	N/ A	<b>VAPOR DENSITY (air = 1):</b>	Not Known
<b>SPECIFIC GRAVITY:</b>	1.15	<b>REACTIVITY IN WATER:</b>	N/ E
<b>SOLUBILITY IN WATER:</b>		<b>EVAPORATION RATE:</b>	Not Known
<b>APPEARANCE AND ODOR:</b>	Clear amberish liquid with a slight vinegar kind odor.		

## SECTION X

## PHYSICAL HAZARDS (REACTIVITY DATA)

<b>STABILITY:</b>	Stable: Yes	Unstable:
<b>CONDITIONS TO AVOID:</b>	N/ A	
<b>INCOMPATIBILITY, MATERIALS TO AVOID:</b>	Not Known. As a precaution avoid strong acids and strong alkalis.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	N/ A	
<b>HAZARDOUS POLYMERIZATION:</b>	WILL NOT OCCUR	
<b>MAY OCCUR:</b>	<b>WILL NOT OCCUR: X</b>	

**SECTION XI****TOXICOLOGICAL INFORMATION**

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- A. **TOXICITY DATA:**
- B. **CARCINOGENICITY:**
- C. **MUTAGENICITY:**
- D. **REPRODUCTIVE TOXICITY:**

**SECTION XII****ENVIRONMENTAL EFFECTS DATA**

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The available data on this plant nutrient material does not indicate any undue hazard to the environment under anticipated use and storage. Any waste due to spillage or leakage should be contained and disposed of as a Fertilizer (see above under Waste Disposal Methods). Due to its nutrient value, may contribute to eutrophication in bodies of water.

**SECTION XIII****DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHODS:** Follow all applicable federal, state and local regulations.

**SECTION XIV****TRANSPORTATION DATA**

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**DOT HAZARD CLASS:** Non- regulated  
**PLACARD:** N/ A  
**USDOT Proper Shipping Name:** Not Applicable