

## MATERIAL SAFETY DATA SHEET

### SPI 2400S

#### SECTION 1: PRODUCT INFORMATION

<b>PRODUCT NAME:</b> SPI 2400S	<b>PRODUCT USE:</b> Petroleum: Steam Additive
<b>MANUFACTURER/SUPPLIER:</b> Buckman Laboratories of Canada, Ltd. 351 Joseph Carrier Vaudreuil-Dorion, Quebec J7V 5V5	<b>EMERGENCY TELEPHONE NUMBER:</b> 450-424-4404

#### SECTION 2: PREPARATION INFORMATION

<b>MSDS PREPARED BY:</b> Buckman Laboratories of Canada, Ltd.	<b>DATE PREPARED:</b> June 16, 2011 (M/D/Y)
<b>TELEPHONE:</b> 450-424-4404	<b>SUPERSEDES:</b> Jan 11, 2005

#### SECTION 3: HAZARDOUS INGREDIENTS

INGREDIENT	CHEMICAL NAME	CAS REGISTRY #	% BY WT.
1	Alcohols C11 ethoxylated	34398-01-1	7.0 - 13.0

INGREDIENT	ACUTE ORAL LD50 (mg/kg)	ACUTE DERMAL LD50 (mg/kg)	ACUTE INHALATION LC50 (ppm)	TLV
1	> 1400 (rat)	Not available	Not available	Not available

The balance of the components are not hazardous according to WHMIS classifications and are not listed on the Ingredient Disclosure List.

#### **SECTION 4: PHYSICAL DATA**

<b>APPEARANCE:</b> Clear, amber	<b>PHYSICAL STATE:</b> Liquid	<b>ODOUR:</b> Mild	<b>ODOUR THRESHOLD:</b> Not available
<b>DENSITY (g/ml @ 25°C):</b> 0.90	<b>EVAPORATION RATE:</b> Not available	<b>VAPOUR DENSITY:</b> Not available	<b>VAPOUR PRESSURE:</b> Not available
<b>pH (neat):</b> Not applicable	<b>pH (100 ppm in water)</b> 6.5 - 7.5	<b>BOILING POINT:</b> > 150 °C	<b>FREEZING POINT:</b> < -13°C
<b>OIL/WATER PARTITION COEFFICIENT:</b> Not available		<b>SOLUBILITY:</b> Partially soluble in water	

*NOTE: The physical data presented above are typical values and should not be construed as specifications.*

#### **SECTION 5: FIRE AND EXPLOSION HAZARDS**

<b>FLASH POINT &amp; METHOD:</b> None below 100 °C (Pensky-Martens Closed Cup)	<b>AUTO-IGNITION TEMPERATURE:</b> Not available
<b>UPPER FLAMMABLE LIMIT (% vol. in air):</b> Not available	<b>LOWER FLAMMABLE LIMIT (% vol. in air):</b> Not available
<b>FLAMMABILITY CONDITIONS:</b> Not flammable	<b>HAZARDOUS COMBUSTION PRODUCTS:</b> Oxides of carbon and organic compounds.
<b>EXTINGUISHING MEDIA:</b> Use water spray to cool fire exposed surfaces and to protect personnel. Water fog, carbon dioxide, foam or dry chemical may be used to extinguish fire.	<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Wear NIOSH approved self-contained breathing apparatus (such as "Scott Air-Pak") , and full protective gear. Isolate "fuel" supply from fire.
<b>EXPLOSION (Sensitivity to Mechanical Impact):</b> None known.	<b>EXPLOSION (Sensitivity to Static Discharge):</b> None known.

#### **SECTION 6: REACTIVITY**

<b>CHEMICAL STABILITY:</b> Stable under normal conditions of use and storage.	<b>CONDITIONS OF UNSTABILITY:</b> None known.
<b>INCOMPATIBILITY WITH OTHER SUBSTANCES:</b> Strong acids, strong bases, strong oxidizers, and reducing agents.	<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Oxides of carbon and organic compounds.

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## SECTION 7: TOXICOLOGICAL DATA

### PRIMARY ROUTES OF EXPOSURE:

<b>Eyes:</b>	Yes	<b>Skin:</b>	Yes	<b>Inhalation</b>	Yes	<b>Ingestion:</b>	Not Expected
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### EFFECTS FROM ACUTE EXPOSURE:

<b>Eye exposure:</b>	May cause a mild irritation. Effects may vary depending on the length of exposure, solution concentration, and first aid measures.
<b>Skin exposure:</b>	May cause a mild irritation. Effects may vary depending on the length of exposure, solution concentration, and first aid measures.
<b>Inhalation:</b>	May cause irritation of mucous membranes and lungs.
<b>Ingestion:</b>	Ingestion is not expected to be a primary route of exposure.

### EFFECTS FROM CHRONIC EXPOSURE:

The effects from chronic exposure to this product have not been fully evaluated.

### ACUTE EFFECTS (Exposure Limits):

<b>Acute Oral LD50:</b>	> 5000 mg/kg (rat)
<b>Acute Dermal LD50:</b>	8000 mg/kg (rabbit)
<b>Acute Inhalation LC50:</b>	No data available.

<b>IRRITANT EFFECTS:</b>	May cause mild eye and skin irritation.
<b>SENSITIZATION EFFECTS:</b>	None known.
<b>CARCINOGENIC POTENTIAL:</b>	Not listed in any of OSHA Standards Section 1910.1200 sources as carcinogenic.
<b>REPRODUCTIVE TOXICITY:</b>	None known.
<b>TERATOGENICITY:</b>	None known.
<b>MUTAGENICITY:</b>	None known.
<b>SYNERGISTIC EFFECTS:</b>	None known.

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## **SECTION 8: PREVENTION MEASURES**

**(The precautions for this product are based on the characteristics of the neat product unless otherwise specified.)**

### **PERSONAL PROTECTION EQUIPMENT:**

**Hands:** Gloves required.

**Eyes:** Safety glasses required.

**Respiratory:** In misting conditions - a NIOSH approved respirator is recommended.

The local EHS (Environmental Health and Safety) professional must identify and evaluate the respiratory hazards in the workplace. Based on this evaluation, the EHS professional must select the appropriate respiratory type and/or filter as required.

**Body Protective Clothing:** Safety protective clothing such as work coveralls or long sleeve shirt and trousers is required.

**Footwear:** Chemical resistant protective footwear required.

**Other:** An emergency shower complete with eye-wash fountain is strongly recommended.

### **ENGINEERING CONTROLS:**

General mechanical ventilation system is adequate. However, local exhaust system is preferred to maintain airborne concentrations below the recommended occupational exposure limits, whenever misting conditions are present or the material is used in a confined space.

### **LEAK AND SPILL PROCEDURES:**

Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the "Handling Procedures and Equipment" section. Check the "Fire and Explosion Hazards" section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of affected areas.

Initially minimize area affected by the spill or leak. Block any potential routes to water systems. Place in a properly labeled container for later disposal. Larger spills may require a vacuum.

### **WASTE DISPOSAL METHODS:**

Disposal shall be in accordance with all applicable federal, provincial and municipal waste regulations.

### **HANDLING PROCEDURES AND EQUIPMENT:**

Do not handle unless the safety precautions have been read and understood. Avoid skin and eye contact. Avoid inhalation of dust or vapours. Do not puncture, drag or slide containers. Do not smoke in any chemical handling or storage area. Wash hands before eating.

### **STORAGE REQUIREMENTS:**

Store in a dry well-ventilated location. Protect from freezing. Keep containers tightly closed. Store away from incompatible materials and ignition sources.

### **SPECIAL SHIPPING INFORMATION:**

Refer to Section 10: TDG Classification

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## **SECTION 9: FIRST AID MEASURES**

### **EYE EXPOSURE:**

No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If irritation persists, obtain medical advice.

### **SKIN EXPOSURE:**

No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed. If irritation persists, obtain medical advice.

### **INHALATION:**

If symptoms are experienced remove sources of contamination or move victim to fresh air and obtain medical advice.

### **INGESTION:**

If irritation or discomfort occur, obtain medical advice immediately.

## **SECTION 10: REGULATORY CLASSIFICATIONS**

### **TDG CLASSIFICATION:**

Not regulated under TDG Regulations.

**Pest Control Products Act: REGISTRATION NUMBER:** Not applicable

**U.S. FDA REGULATIONS: FDA (21 CFR) Section(s):**

176.210

### **WHMIS CLASSIFICATION:**

Not a controlled product.

### **DOMESTIC SUBSTANCES LIST (DSL):**

All Components are listed on the DSL.

### **HAZARD RATING:**

<b>RATING</b>	<b>HEALTH</b>	<b>FLAMMABILITY</b>	<b>REACTIVITY</b>
<b>HMIS</b>	1	1	0
<b>NFPA</b>	1	1	0

While the information and recommendations set forth are believed to be accurate as of the date of the Material Safety Data Sheet, Buckman Laboratories of Canada, Ltd. makes no warranty with respect thereto and disclaims all liability from reliance thereon. Buckman Laboratories of Canada, Ltd. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. To promote the safe use and handling of this product, each customer or recipient should distribute this MSDS to the product users.

This MSDS expires June 16, 2014

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