MATERIAL SAFETY DATA SHEET

SPI 2402-H

SECTION 1: PRODUCT INFORMATION

PRODUCT NAME: SPI 2402-H	**PRODUCT USE:** Solids Precipitation Inhibitor
MANUFACTURER/SUPPLIER: **Buckman Laboratories of Canada, Ltd**. 351 Joseph Carrier Vaudreuil-Dorion, Quebec J7V 5V5	**EMERGENCY TELEPHONE NUMBER:** 450-424-4404

SECTION 2: PREPARATION INFORMATION

MSDS PREPARED BY: Buckman Laboratories of Canada, Ltd**.**	**DATE PREPARED:** Dec. 24, 2009 **(M/D/Y)**
TELEPHONE: 450-424-4404	**SUPERSEDES:** Jan 25, 2007

SECTION 3: HAZARDOUS INGREDIENTS

INGREDIENT	CHEMICAL NAME	CAS REGISTRY #	% BY WT.
1	Xylene (mixed isomers)	1330-20-7	40.0 - 70.0
2	2-Butoxyethanol	111-76-2	10.0 - 30.0
3	Ethylbenzene	100-41-4	3.0 - 12.0

INGREDIENT	ACUTE ORAL LD50 (mg/kg)	ACUTE DERMAL LD50 (mg/kg)	ACUTE INHALATION LC50 (ppm)	TLV
1	5251 (female mouse)	Not available	6350 (rat, 4hr)	100 ppm
2	320 (rabbit)	100 (female rabbit)	450 (female rat, 4hr)	20 ppm
3	3500 (rat)	15380 (rabbit)	4000 (rat, 4hr)	100 ppm

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

APPEARANCE: Clear, yellow	**PHYSICAL STATE:** Liquid	**ODOUR:** Slightly fatty	**ODOUR THRESHOLD:** Not available
DENSITY (g/ml @ 25°C): 0.88	**EVAPORATION RATE:** < 1 (water = 1.0)	**VAPOUR DENSITY:** > 1 (water = 1.0)	**VAPOUR PRESSURE:** Not available
pH (neat): Not available	**pH (100 ppm in water)** Not available	**BOILING POINT:** > 100°C	**FREEZING / MELTING POINT:** < - 40°C

OIL/WATER PARTITION COEFFICIENT: Not available	**SOLUBILITY:** Insoluble in water. Soluble in most hydrocarbon solvents.

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

SECTION 5: FIRE AND EXPLOSION HAZARDS

FLASH POINT & METHOD: 31°C (Tag Closed Cup)	**AUTO-IGNITION TEMPERATURE:** Not available
UPPER FLAMMABLE LIMIT (% vol. in air): Not available	**LOWER FLAMMABLE LIMIT (% vol. in air):** Not available
FLAMMABILITY CONDITIONS: Liquid can burn upon heating to temperatures at or above the flash point. Vapors may be ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.	**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, aldehydes, ketones, organic acids.
EXTINGUISHING MEDIA: 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.	**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved self-contained breathing apparatus (such as "Scott Air-Pak") , and full protective gear. Isolate "fuel" supply from fire.
EXPLOSION (Sensitivity to Mechanical Impact): None known.	**EXPLOSION (Sensitivity to Static Discharge):** None known.

SECTION 6: REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use and storage.	**CONDITIONS OF UNSTABILITY:** Excessive heat, open flames, and all ignition sources.
INCOMPATIBILITY WITH OTHER SUBSTANCES: Strong acids, strong bases, and strong oxidizing agents.	**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, aldehydes, ketones, organic acids.

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SECTION 7: TOXICOLOGICAL DATA

PRIMARY ROUTES OF EXPOSURE:

Eyes:	Yes	**Skin:**	Yes	**Inhalation**	Yes	**Ingestion:**	Not Expected

EFFECTS FROM ACUTE EXPOSURE:

Eye exposure:	Irritant. Effects may vary depending on the length of exposure, solution concentration, and first aid measures.
Skin exposure:	Irritant. Effects may vary depending on the length of exposure, solution concentration, and first aid measures.
Inhalation:	Vapor is irritating to the respiratory tract, causing stinging sensations in the nose and throat. It affects the central nervous system producing symptoms such as headache , nausea, dizziness, drowsiness, and confusion and may cause loss of consciousness.
Ingestion:	Ingestion is not expected to be a primary route of exposure. Harmful if swallowed.

EFFECTS FROM CHRONIC EXPOSURE:
Repeated dermal exposures may cause allergic contact dermatitis type reactions in susceptible individuals.

ACUTE EFFECTS (Exposure Limits):

Acute Oral LD50:	No data available. Expected to be toxic, based on the components.
Acute Dermal LD50:	No data available. Expected to be toxic, based on the components.
Acute Inhalation LC50:	No data available. Expected to be toxic, based on the components.

IRRITANT EFFECTS:	Eye and skin irritant.
SENSITIZATION EFFECTS:	None known.
CARCINOGENIC POTENTIAL:	Ethylbenzene: classified by the IARC as a group 2B carcinogen (possibly carcinogenic to humans).
REPRODUCTIVE TOXICITY:	None known.
TERATOGENICITY:	Xylene (mixed isomers): Fetotoxic in humans. Has produced delayed ossification and behavioural effects in animals, in the absence of maternal toxicity.
MUTAGENICITY:	None known.
SYNERGISTIC EFFECTS:	None known.

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SECTION 8: PREVENTION MEASURES

PERSONAL PROTECTION EQUIPMENT:

Hands: Chemically impermeable gloves required.

Eyes: Safety glasses required.

Respiratory: 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. 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: A chemical resistant protective clothing 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 : T.D.G. Classification

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SECTION 9: FIRST AID MEASURES

EYE EXPOSURE:
Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 15 - 20 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into unaffected eye or onto the face. If irritation persists, repeat flushing. Obtain medical attention immediately.

SKIN EXPOSURE:
Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

INHALATION:
This product is flammable. Take proper precautions (e.g. remove any sources of ignition). Use proper respiratory protection to immediately move exposed individual to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. If breathing is stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Avoid mouth to mouth contact by using mouth guards or shields. Immediately transport victim to an emergency care facility.

INGESTION:
NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300 ml (8 to 10 oz.) of water to dilute material in stomach. If vomiting occurs naturally, rinse mouth and repeat administration of water. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. Obtain medical attention immediately.

SECTION 10: REGULATORY CLASSIFICATIONS

TDG CLASSIFICATION:
FLAMMABLE LIQUID, TOXIC, N.O.S. [Xylene (mixed isomers)], [2-Butoxyethanol]
Class 3 [6.1] - UN 1992 - PG II

Pest Control Products Act: REGISTRATION NUMBER: Not applicable

U.S. FDA REGULATIONS: FDA (21 CFR) Section(s):
Not available

WHMIS CLASSIFICATION:
Class B; Division 2 (flammable), Class D; Division 1A, Class D; Division 2A, Class D; Division 2B

DOMESTIC SUBSTANCES LIST (DSL):
All components are listed on the DSL.

HAZARD RATING:

RATING	HEALTH	FLAMMABILITY	REACTIVITY
HMIS	3	3	0
NFPA	3	3	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 Dec. 24, 2012

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