



STOLLER USA, INC.

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PROSTART CA

MATERIAL SAFETY DATA SHEET (rev. 02/21/07)

SECTION I - PRODUCT IDENTIFICATION

NFPA HAZARD RATINGS

HEALTH HAZARD 1 FIRE HAZARD 0 REACTIVITY 0

Based on the National Fire Protection Association rating system

(0 = No threat; 1 = Slight; 2 = Moderate; 3 = High; 4 = Extreme)

SARA/TITLE III HAZARD CATEGORIES (See Section XV)

Immediate (ACUTE) Health: YES Delayed (Chronic) Health: YES
Reactive Hazard: NO Fire Hazard: NO Sudden Release of Pressure: NO

Company Name: STOLLER USA, INC.

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**Emergency Phone Number: CHEMTREC In the US and Canada call toll-free 1 (800) 424-9300
From other countries call collect +1 (703) 527-3887**

Phone Number for Information: 1 (800) 539-5283 or 1 (713) 461-1493

Chemical Family: Inorganic salt solution

Chemical Name & Synonyms: Urea and calcium chloride solution

Formula: Urea = CO(NH₂)₂; Calcium chloride = CaCl₂

Tradename & Synonyms: **PROSTART CA; PROSTART; PROSTART 11-0-0-3Ca**

SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS:	CAS #	Approx. %	TLV
Urea	57-13-6	24	10 mg/m ³
Calcium Chloride solution	10043-52-4	22	10 mg/m ³ (*)

(*) As Calcium chloride anhydrous

SECTION III - HAZARD IDENTIFICATION

EXPOSURE LIMITS

OSHA Permissible Exposure Limit (PEL): Not Established

Threshold Limit Value (TLV): Not Established

EFFECTS OF OVEREXPOSURE

ACUTE Depending on the duration of contact, overexposures can irritate or burn the eyes, skin, mucous membranes and any other exposed tissue.

EYES: Contact with product may cause redness, severe irritation, pain.

SKIN: Skin absorption is not a significant route of overexposure. Still, contact may cause reddening,, discomfort, irritation or rash, ulceration, dermatitis on sensitive individuals unless treated promptly.

INHALATION: Prolonged exposure to vapors, mists or sprays may cause sore throat and headache, irritation of respiratory passages.

INGESTION: Immediately will occur irritation of mouth, throat, esophagus and other tissues of the digestive system.

Also may cause drowsiness, difficulty swallowing, burning sensation in stomach, nausea, abdominal pain, vomiting, diarrhea, hypertension, convulsions and collapse. May be fatal.

CHRONIC Overexposure can cause dermatitis, stomach pains, metallic taste, lung irritation, chest pains and edema.

SECTION IV - FIRST-AID MEASURES**EMERGENCY FIRST AID PROCEDURES**

Victims of exposure to chemicals must be taken to health providing centers for medical attention. If necessary, also rescuers must be attended. Always bring with victim a copy of label and MSDS of product to health professional.

EYES: Immediately holding eyelids apart flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

SKIN: Remove product & immediately flush affected area with water for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritations occur.

INHALATION: Move patient to fresh air. Supplemental oxygen may be indicated. Assure mucous does not obstruct airway. Call physician if breathing becomes difficult.

INGESTION: Immediately contact a physician or poison control center for treatment advice. Do not induce vomiting. Victim should drink milk, egg whites or large quantities of water. Never give anything by mouth to someone who is unconscious, having convulsions or unable to swallow.

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT: Not Applicable; product is non-flammable.

FLAMMABLE LIMITS: LEL: Not Applicable UEL: Not Applicable

EXTINGUISHER MEDIA: Use all means adequate to fight surrounding fire, water, foam, CO₂, dry chemicals.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters must wear self-contained breathing apparatus and full protective equipment, like chemical resistant clothing. Move containers from fire area if they have not been exposed to heat and if it can be done without risk to personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: It might present an inhalation hazard.

HAZARDOUS DECOMPOSITION PRODUCTS: As a result of extremely high temperatures, as in a fire: Nitrogen compounds (like ammonia and NO₂), chlorhydric acid, hydrogen, chlorine.

SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: In case of a large spill, clear the affected area, and protect people. Such releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used: safety goggles or faceshield, impervious gloves (rubber gloves, nitrile gloves or latex gloves), chemically-resistant apron or coveralls and boots.

In the event of a incidental release, minimum Personal Protective Equipment must be worn (rubber gloves and boots, goggles, or full faceshield and coveralls). It is necessary to contain spill into the smallest area possible by diking, scooping, etc., and replace liquid into plastic container. If liquid is absorbed onto dry carrier such as soil or absorbent material, then this material should be put in covered labeled containers and dispose of as a dry waste. Dispose of the contaminated absorbent material in accordance with Federal, State and local hazardous waste disposal regulations.

SECTION VII - HANDLING AND STORAGE

All personnel who handle this material should be trained to handle it safely. Avoid breathing vapors or mists; use in a well-ventilated location. Empty containers may contain residual liquid or vapors therefore, should be handled also with care.

Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. Store away from food, feed and clothing materials. Floors should be sealed to prevent absorption of this material and, whenever possible, place on secondary containers or diked area. Inspect all incoming containers before storage, to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use.

SECTION VIII - SPECIAL PROTECTION / CONTROL MEASURES

RESPIRATORY PROTECTION: As required by conditions; use a NIOSH approved respirator.

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

SKIN AND EYE PROTECTION: Safety glasses should be worn in any type of operation. Protective gloves, long sleeved shirt and long pants, as well as protective shoes should be worn as a good safety practice.

OTHER CONTROL MEASURES: An eye bath and washing facilities should be available. Wash thoroughly after handling. Do not smoke, eat, drink, chew gum or tobacco when handling chemicals.

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: clear pale yellow solution, no odor.

BOILING POINT: 275°F (135°C)

MELTING POINT: N/A

SPECIFIC GRAVITY: 1.15

SOLUBILITY IN WATER: 100%

OTHER:

VAPOR PRESSURE (mm/Hg): Not Established

VAPOR DENSITY (air = 1): Similar to water

REACTIVITY IN WATER: N/A

EVAPORATION RATE: Similar to water

SECTION X - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY: Stable

CONDITIONS TO AVOID: Stable under normal conditions, but avoid extreme heat and contact with incompatible materials.

INCOMPATIBILITY, MATERIALS TO AVOID: Strong bases and strong oxidizing agents; phosphates.

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: As a result of extremely high temperatures, as in a fire: Nitrogen compounds (like ammonia and NO₂), hydrogen, chlorhydric acid (hydrogen chloride), and chlorine.

SECTION XI - TOXICOLOGICAL INFORMATION**TOXICITY DATA**

ORAL: Urea LD₅₀ (rats) 8471 mg/kg; CaCl₂ LD₅₀ (rats) 900-2100 mg/kg

DERMAL: CaCl₂ LD₅₀ (rabbits) >5000 mg/kg

INHALATION: No data found

CARCINOGENICITY

Not listed as a carcinogenic by IARC, NTP, OSHA, CAL/OSHA and ACGIH. Is listed as EPA-D (non-carcinogenic).

MUTAGENICITY: the components of this product are not reported to produce mutagenic effects in humans.

EMBRYOTOXICITY: the components of this product are not reported to produce embryotoxic effects in humans.

TERATOGENICITY: the components of this product are not reported to produce teratogenic effects in humans.

REPRODUCTIVE TOXICITY: the components of this product are not reported to produce reproductive toxicity effects in humans.

SECTION XII - ENVIRONMENTAL EFFECTS DATA

The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at eliminating environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly (see above under Accidental Release Measures). Due to its nutrient nature, may affect aquatic life if discharged in bodies of water, by promoting eutrophication.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Waste disposal must be done following all Federal, State and Local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority.

SECTION XIV - TRANSPORTATION DATA

DOT Proper Shipping Name: Not regulated material
(Trade name: PROSTART CA)

IATA Proper Shipping Name: Not regulated material
(Trade name: PROSTART CA)

IMO Proper Shipping Name: Not regulated material
(Trade name: PROSTART CA)

PLACARDS: Not applicable

SECTION XV - REGULATORY INFORMATION

U. S. SARA REPORTING REQUIREMENTS: This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act, as follows:

U.S. SARA 302 (40 CFR 355, Appendix A): NO
U.S. SARA 304 (40 CFR Table 302.4): NO
U.S. SARA 313 (40 CFR 372.65): NO
U.S. SARA THRESHOLD PLANNING QUANTITY: Not applicable
U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable
U.S. TSCA INVENTORY STATUS: The components of this material are listed on the TSCA Inventory.
CANADIAN DSL INVENTORY: The components of this material are listed on the DSL Inventory.

SECTION XVI - OTHER INFORMATION

Date of MSDS Revision: Feb. 21, 2007. Supersedes all previous versions.

Stoller USA, Inc., believes the information contained in this Material Safety Data Sheet is accurate, based on the information supplied by reputable suppliers of our raw materials. However, Stoller USA does not guarantee their accuracy or completeness. The information contained herein is furnished without warranty of any kind, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for any particular purpose. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Stoller USA assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of goods and data.