

1. Identification

Product identifier SvlLockUpTM Urea

Other means of identification Stabilized Nitrogen Fertilizer (Yellow)

Synonyms Coated Urea*Treated Urea

Recommended use Fertilizer.

Recommended restrictionsUse in accordance with supplier's recommendations.

Manufacturer / Importer / Supplier / Distributor Information
Manufacturer / Supplier Sylvite Agri-Services Ltd.

2740 Couch Rd.

Putnam, Ontario N0L 2B0

Telephone 1-800-567-7455 Website www.sylvite.ca

Contact person Sylvite EH&S/Regulatory Department

Emergency phone number In Canada: CANUTEC (24 hours): 613-996-6666 In USA: CHEMTREC (24 hours): 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Use personal protective equipment as required. Do not use as an animal feed.

Response Wash hands after handling.

Storage Store away from incompatible material.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Urea	57-13-6	60 - 100
Non hazardous dye	Proprietary	< 1
N-(n-butyl) thiophosphoric triamide	94317-64-3	< 0.1

Composition commentsAll concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.



This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.

4. First-aid measures

Eye contact Dust in the eyes: Do not rub eyes. Flush immediately with copious amounts of

water or normal saline (minimum of 15 minutes), holding eyelids apart to ensure complete irritation of the eye and eyelid tissue. Take exposed individual to a health care professional, preferably an opthalmologist, for further

evaluation.

Remove contaminated clothing, shoes and equipment. Wash exposed area with Skin contact

plenty of soap and water. Repeat washing. If redness or irritation occurs, seek

medical attention. Wash contaminated clothing before reuse.

Inhalation No adverse effects anticipated. If necessary, move victim to fresh air and loosen

clothing. Get medical attention.

Rinse mouth thoroughly if dust is ingested. Get medical attention if any Ingestion

discomfort occurs.

Most important symptoms/effects, acute and

delayed

Symptoms can include irritation, redness, scratching of the cornea, and tearing.

Indication of immediate medical attention and special treatment needed Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take General information

precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising

from the chemical

Urea is non-combustible under most conditions. However, during a fire, irritating/toxic gases may be generated. The dust can be ignited at very high temperatures, but not expected to explode (minimum ignition temperature cloud = 900° C).

Special protective equipment and precautions for

firefighters

Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting follow the general fire

precautions indicated in the workplace.

Fire-fighting

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Move containers from the fire area if you can do so without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedure

Avoid inhalation of dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. For personal protection see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust

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suppressant agent which does not react with the product. After removal flush contaminated area

thoroughly with water.

Never return spills to original containers for re-use.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to

enter drains, sewers or watercourses.

7. Handling and storage

Precautions for safe handling Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes.

Use only with adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dry well-ventilated place. Store away from incompatible materials. Long term storage at temperatures above $100^{\circ}F$ ($36^{\circ}C$) can adversely affect the efficacy of products containing N-(n-butyl)-thiophosphoric triamide.

8. Exposure controls/personal protection

Occupational exposure limits

US Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m ³	Total particulate.

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Follow standard monitoring procedures.

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Observe Occupational

Exposure Limits and minimize the risk of inhalation of dust.

Individual protection measures such as personal protective equipment

Eye/face protection Use tight fitting goggles if dust is generated.

Skin Protection

Hand protection Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the

glove supplier.

Other No skin protection is ordinarily required under normal conditions of use. In accordance

with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of

vapors, use suitable respiratory equipment.

In the United States of America, if respirators are used, a program should be instituted to assure

compliance with OSHA 29 CFR 1910.134 and ANSI Z88.2.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material consideration and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety

practice.



9. Physical and chemical properties

Light to medium yellow granules. **Appearance**

Physical State Solid.

Form Granular. Pellets. Light to medium blue. Color

Odor Ammonia-like, Faint, characteristic.

Odor threshold Not available. 7.2 (10% solution) pН Melting point/freezing point 270.86°F (132.7°C) Initial boiling point and boiling Not available.

range

Flash point Not flammable. **Evaporation Rate** Not available. Not available. Flammability (solid, gas) Not available. Vapor pressure Vapor Density (Air=1) Not available. Relative density 1.33 (water=1) Soluble **Solubility** Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. Viscosity

Other information

48 – 52 lb/ft³ (Packed) **Bulk Density**

Molecular weight 60.06 g/mol

10. Stability and reactivity

Reactivity Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates

causing fire and explosion hazard.

Chemical stability Normally stable. May gradually give off ammonia. The product is hygroscopic and will absorb

water by contact with the moisture in the air.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Moisture. High temperatures. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitric acid. Nitrites.

Hazardous decomposition

products

Nitrogen oxides (NO_x). Carbon oxides. Ammonia. Biuret.

11. Toxicological information

Information on likely routes of exposure

Ingestion May cause discomfort if swallowed.

Inhalation Dust may irritate throat and respiratory system and cause coughing.

Skin contact Dust may irritate skin.

Eye contact Dust may cause eye irritation on direct contact.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms can include irritation, redness, scratching of the cornea and tearing.

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Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components	Species	Test Results
N-(n-butyl)-thiophosphoric triamide (CAS 94317-64-3)	
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	> 2823 mg/kg
Urea (CAS 57-13-6)		
Acute		
Oral		
LD50	Rat	14300 mg/kg

Skin corrosion/irritation May cause irritation through mechanical abrasion.

Serious eye damage/eye

irritation

May cause irritation through mechanical abrasion.

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization Not a skin sensitizer.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity-

single exposure

Inhalation of dusts may cause respiratory irritation.

Specific target organ toxicity-

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged exposure may cause chronic effects.

Further information No other specific acute or chronic health impact noted.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging

effect on the environment.

Components		Species	Test Results
N-(n-butyl)-thiophosp	horic triamide (CAS 943	317-64-3)	
Aquatic			
Crustacea	EC50	Daphnia	290 mg/l, 48 hours
Fish	LC50	Fish	1140 mg/l, 96 hours
Urea (CAS 57-13-6) Aquatic			
Fish	LC50	Leuciscus idus	> 6810 mg/L, 96 hours

Persistence and degradabilityNo data available for this product.

Bioaccumulative potentialNo data available for this product.

Mobility in soil This product is water soluble and may disperse in soil.



Other adverse effects No data available.

13. Disposal considerations

Disposal instructions Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all

applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Disposal recommendations are based on material as supplied. Disposal must be in

accordance with current applicable laws and regulations, and material characteristics at time of

disposal.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

14. Transport information

DOT Not regulated as a hazardous material by DOT.

IATA Not regulated as a dangerous goods.

IMDG Not regulated as a dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not applicable. However, the product is covered under Appendix I of the IMSBC Code.

15. Regulatory information

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

N-(n-butyl)-thiophosphoric triamide (CAS 94317-64-3) 1.0% One-Time Export Notification only.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

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US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US Massachusetts RTK - Substance List

Not regulated.

US New Jersey Worker and Community Right-to-Know Act

Not regulated.

US Pennsylvania RTK - Hazardous Substances

Not regulated.
US Rhode Island RTK

Not regulated.

US California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substances

Not listed

International Inventories

 Country(s) or region
 Inventory name
 On inventory (yes/no)*

 United States & Puerto Rico
 Toxic Substances Control Act Inventory
 Yes

16. Other information, including date of preparation or last revision

Issue date 13-March-2017

Revision date NA

Version # SDS-1

NFPA Ratings



List of abbreviations LC50: Lethal concentration, 50%.

LD50: Lethal Dose, 50%.

References EPA: Acquire database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

RTECS

National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Value and Biological Exposure Indices

Preparation The preparation of this MSDS was in accordance with ANSI Z400.1-2010.

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preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this

(M)SDS.

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).