November 10, 2010

Material Safety Data Sheet

Product Name: Gordon's BENSUMEC 4LF

MSDS No.: 845-6 **Version No.:** 015 **EPA Registration No.:** 2217-696

1. Basic Information:

Manufacturer: PBI/Gordon Corporation
Address: 1217 West 12th Street
City, State Zip: Kansas City, MO 64101-1407
Information Contact: Environmental, Health, & Safety Dept.
Information Telephone Number: (816)421-4070
Emergency Contact: Chemtrec
Emergency Telephone Number: (800)424-9300

1	Health
2	Flammability
0	Reactivity
B	Pers. Protection

Last Update: 11/10/2010

Chemical State: [X] Liquid [ ] Gas [ ] Solid
Chemical Type: [ ] Pure [X] Mixture

2. Ingredients:

[ ] Trade Secret *(ND = Not Disclosed)*

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
95636	1,2,4-Trimethylbenzene	13.04%	N	N	N	N	Y	NI	25 ppm	25 ppm
64742956	Petroleum distillates	26.81%	N	N	N	Y	N	500 ppm	NI	50 ppm
741582	S-(O,O-Diisopropyl phosphorodithioate) ester of N-(2-Mercaptoethyl) benzenesulfonamide	46.00	N	N	N	N	N	NI	NI	NI
1330207	Xylenes	0.90%	N	N	N	Y	Y	100 ppm	100 ppm	100 ppm

3. Hazardous Identification:

Hazard Catagory:
[X] Acute [X] Chronic [X] Fire [ ] Pressure [ ] Reactive

Hazardous Identification Information:
This material is a combustible liquid. It contains a mixture of petroleum distillates which may cause skin dryness or cracking upon repeated exposure. They may be irritatiing to the eyes, nose, throat, and lungs. Concentrations above recommended esposure levels may cause central vervous system depression including headsches, dizziness, anesthesia, drowsiness, and unconsciousness.

4. First Aid Measures:

Route(s) of Entry:
Contact, Inhalation, Ingestion.

Health Hazards (Acute and Chronic):
EYES: Causes moderate eye irritation.

SKIN: Contact may be moderately irritating to the skin. May be absorbed through the skin.

INHALATION: May be irritating to the respiratory system.

INGESTION: May be irritating to gastrointestinal tract.

Signs and Symptoms:
Inhalation may cause a burning sensation, with coughing and dizziness.

Medical Conditions Generally Aggravated by Exposure:
Asthma or skin lesions may be irritated by exposure.

Emergency First Aid Procedure:
Call a physician immediately! If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop. Immediately initiate the recommended procedures described below and simultaneously

First Aid Measures (Continued)

contact a physician, the nearest hospital or Poison Control Center. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms and follow the advice given.
NOTE: Be sure to advise the person contacted that the active ingredient in this compound is a cholinesterase inhibitor and follow the advice given.

If swallowed:
-Immediately call a poison control center of doctor.
-Do not induce vomiting unless told to do so by a poison control center or doctor.
-Do not give any liquid to the person.
-Do not give anything by mouth to an unconscious person.

If inhaled:
-Move person to fresh air.
-If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth- to-mouth if possible.
-Call a poison control center of doctor immediately for treatment advice.

If on skin or clothing:
-Take off contaminated clothing.
-Rinse skin immediately with plenty of water for 15-20 minutes.
-Call a poison control center or doctor for treatment advice.

If in eyes:
-Hold eye open and rinse slowly and gently with water for 15-20 minutes.
-Remove contact lens, if present, after the first five minutes, then continue rinsing eye.
-Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information in case of emergency, call toll free 1-877-800-5556.

NOTE TO PHYSICIAN: This product may pose an aspiration pneumonia

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First Aid Measures (Continued)

hazard. Contains petroleum distillate.

Exposure to the active ingredient may cause cholinesterase inhibition. Atropine by injection is antidotal. 2-PAM (Protopam Chloride) is also antidotal when administered early and in conjunction with atropine.

Other Health Warnings:
If known exposure occurs, or if poisoning is suspected, do not wait for symptoms to develop. Immediately initiate the recommended procedures described below, and inform the physician or Poison Control Center called of the type and extent of exposure. Exposure to the active ingredient may cause cholinesterase inhibition. Atropine by injection is antidotal. 2-PAM is also antidotal when administered early and in conjunction with atropine.

5. Fire Fighting Measures:

Flash Point: 104°F **F.P. Method:** Closed Cup

Lower Explosive Limit: 1.1%

Upper Explosive Limit: 6.6%

Fire Extinguishing Media:
Foam, CO2, Dry chemical, Water.

Special Fire Fighting Procedures:
Wear positive-pressure breathing apparatus and full protective clothing. Stay up wind and out of low areas.

Unusual Fire and Explosion:
Extreme heat may release toxic fumes. Prevent contamination of ground water from fire-control runoff. If pollution occurs, contact local authorities.

6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:
See Section 8 for Personal Protective Equipment. Do not touch spilled material. Contain and collect the spilled material using an inert absorbent. Collect into drums for disposal; cover and label drums. Wash the area with water if possible, and absorb the wash water for disposal.

7. Handling and Storage:

Precautions to be Taken:
Do not contaminate water, food, or feed by storage or disposal.
STORAGE: Protect from temperatures below 42°F. Product crystallizes at lower temperatures. Warm or store at higher temperatures and mix to redissolve crystals and assure uniformity before use. Do not store near sources of heat or open flame. Store in original container in locked storage area. Keep pesticides separate during storage to prevent cross-contamination with other pesticides or fertilizers.

Other Precautions:
PHYSICAL HAZARDS:
Combustible. Do not use, store, pour or spill near heat or open flame. Keep container closed when not in use.

8. Exposure Controls/Personal Protection:

Ventilation Requirements:
Good local ventilation, or mechanical exhaust.

Personal Protective Equipment:
Some of the materials that are chemical-resistant to the product include barrier laminate and Viton. If you want more options, follow the instructions for category G on an EPA chemical-resistance selection chart.

Mixers and loaders must wear:
-Long-sleeved shirt and long pants
-Chemical-resistant gloves Category A, such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber, all at least 14 mils in thickness.

Exposure Controls/Personal Protection (Continued)

-Shoes plus socks
-NIOSH-approved respirator with any N, R, P or HE filter

Applicators must wear the following:
-Long-sleeved shirt and long pants
-Chemical-resistant gloves Category A, such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber, all at least 14 mils in thickness.
-Shoes plus socks.
-Applicators for hire (non golf course employees) must wear a dust mist NIOSH approved respirator with any N, R, P or HE filter (due to risk from repeated exposures) when applying this product to golf courses.

User Safety Recommendations:
-Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
-Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
-Users should remove clothing/PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a NIOSH approved respirator with any N, R, P or HE filter.

9. Physical and Chemical Properties:

Boiling Point: >290°F **Melting Point:** NI

Evaporation Rate (Butyl Acetate = 1) : NI

Vapor Pressure (mm Hg.): 4 @ 68°F

Vapor Density (Air = 1): >3.6

Specific Gravity (H20 = 1): 1.03200

Solubility in Water: Emulsifiable.

Appearance and Odor: Amber liquid; mercaptan odor.

Other Information:
Percent volatile by volume: 50%
Density: 8.6 pounds/gallon
Freezing point: 42°F - precipitates out

10. Stability and Reactivity:

Stability:
Stable.

Incompatibility (Materials to Avoid):
None known.

Decomposition/By-Products:
If burned, phosphorus oxides may be liberated.

Hazardous Polymerization:
Will not occur.

11. Toxicological Information:

Acute Oral Toxicity: LD50 >2,000 mg/kg

Acute Dermal Toxicity: LD50 >2,000 mg/kg

Acute Inhalation Toxicity: LC50 >2.0 mg/L

Primary Eye Irritation: Mildly irritating to the eye.

Primary Skin Irritation: Non-irritating to the skin.

Dermal Sensitization: Not considered to be a contact sensitizer.

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12. Ecological Information:

ENVIRONMENTAL HAZARDS:
This product is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater. Do not apply when weather conditions favor drift from treated area.

13. Disposal Considerations:

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke.

14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Freight Class: Pesticides, NOI - NMFC #155050-6

In our current available sizes, this product does not qualify as a Hazardous Material.

15. Regulatory Information:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: 11111 pounds of the formulation which contains 100 pounds of Xylenes

SARA TITLE III:
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None
SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard, Delayed Health Hazard, Fire Hazard
SECTION 313 TOXIC CHEMICALS: Xylenes CAS# 1330-20-7, Trimethylbenzene CAS# 95-63-6

RCRA STATUS: When discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed as a hazardous waste. (40 CFR 261.20-24)

16. Other Information:

REASON FOR ISSUE: To revise Sections 3, 14, and 15.

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.

Other Information (Continued)