TechPac, LLC.

Material Safety Data Sheet

GARDENTECH® SEVIN®-READY-TO-USE 5% DUST

This product is used by Homeowners and Professionals March 2012

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name GARDENTECH® SEVIN®-READY-TO-USE 5% DUST

Product codes S7000, S7000D, S7007, S7007D, S7008, S7009, S7013, S7013D, S7017,

S7017D, S7023, S7023D, S7025, S7115

SAP Numbers 100508222, 100508225, 100508072, 100508073, 100064376, 100064494,

10063953, 100064493

EPA Registration No. 432-1209-71004

Product Use Insecticide

TechPac, LLC.

2030 Powers Ferry Road - Suite 370

Atlanta, GA 30339

For MEDICAL EMERGENCY: call 800-420-9347 For TRANSPORTATION or SPILL: call 800-420-9300

For Product Information: call 866-945-5033

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Harmful if swallowed. Harmful if absorbed through skin. Harmful if

inhaled. Avoid contact with skin, eyes and clothing. Avoid breathing dust.

Physical State powder

Odor slight

Appearance light tan to brown

Exposure routes Ingestion, Inhalation, Eye contact, Skin Absorption

Immediate Effects

Eye Causes eye irritation. Avoid contact with eyes.

Skin Harmful if absorbed through skin. May produce symptoms similar to those from

ingestion. Avoid contact with skin and clothing.

Ingestion Harmful if swallowed. This product causes reversible cholinesterase inhibition

without long term effects. Repeated overexposure may cause more severe cholinesterase inhibition with more pronounced symptoms. May lead to rapid onset of nausea, vomiting, diarrhea, abdominal pain, involuntary shaking, excess salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis,

respiratory depression, and convulsions. Do not take internally.

Inhalation Harmful if inhaled. May produce symptoms similar to those from ingestion. Avoid

breathing dust.

Chronic or Delayed Long-Term

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.

This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal.

Medical Conditions Aggravated by Exposure

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

Potential Environmental Effect

Extremely toxic to aquatic and estuarine invertebrates. Highly toxic to bees.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Carbaryl	63-25-2	5.00
Quartz (Silica, Crystalline)	14808-60-7	9.20
Crystalline quartz (respirable)		
Calcium carbonate	471-34-1	45.00
Synthetic amorphous silica	112926-00-8	2.00

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Notes to physician Signs and Symptoms

Temporary blurred vision due to contraction of the pupils (miosis) following

contact with the eyes.

Bradycardia

Low blood pressure

Salivation

Bronchial hypersecretion

Vomiting Diarrhea Sweating

Muscular fasciculation

Spasm

Breathing difficulties Respiratory paralysis

Somnolence

Coma

Respiratory failure Hypothermia Convulsions Nausea

Hazards This product is a cholinesterase inhibitor carbamate.

Treatment Monitor: respiratory, cardiac and central nervous system. Monitor: blood picture.

Monitor: red blood cell and plasma cholinesterase. ECG - monitoring

(Electrocardiogram). Oxygen or artificial respiration if needed. Keep respiratory tract clear. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. The following antidote is generally accepted: atropine. Before antidote is administered, either clear symptoms of poisoning have to be present or the cholinesterase activity is inhibited to below 30% of normal. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. Contraindications:

oximes (pralidoxime, obidoxime).

Do not use oximes such as 2-PAM unless organophosphate intoxication is suspected. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 24-48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

Contraindications: derivatives of morphine.

SECTION 5. FIRE FIGHTING MEASURES

Flash point not applicable

Autoignition temperature no data available

Lower Flammability

Limit

no data available

Upper Flammability Limit no data available

Explosiveness no data available

Fire and Explosion **Hazards**

Dangerous gases are evolved in the event of a fire.

Suitable extinguishing

media

Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Whenever possible, contain fire-fighting water by diking

area with sand or earth.

Firefighters should wear NIOSH approved self-contained breathing apparatus

and full protective clothing.

Dust Explosion Class no data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled

product or contaminated surfaces.

Methods for cleaning up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable

> container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be

removed and disposed.

Additional advice Use personal protective equipment. Do not allow to enter soil, waterways or

waste water canal.

SECTION 7. HANDLING AND STORAGE

Handling procedures Maintain exposure levels below the exposure limit through the use of general

and local exhaust ventilation. Handle and open container in a manner as to

prevent spillage.

Storing Procedures Store in a cool, dry place and in such a manner as to prevent cross

> contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked

storage area.

Work/Hygienic **Procedures**

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash

thoroughly and put on clean clothing.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection Follow all label instructions. Train employees in safe use of the product.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash

PPE separately from other laundry.

Eye/Face Protection Safety glasses with side-shields

Hand protection Chemical resistant nitrile rubber gloves

Body Protection Wear long-sleeved shirt and long pants and shoes plus socks.

Respiratory protection When respirators are required, select NIOSH approved equipment based on

actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a

self-contained breathing apparatus unit.

Exposure Limits

Carbaryl	63-25-2	ACGIH ACGIH NIC NIOSH OSHA Z1 OSHA Z1A US CA OEL TX ESL TX ESL OES BCS* ACGIH TN OEL	TWA TWA REL PEL TWA TWA PEL ST ESL AN ESL TWA TWA TWA	5 mg/m3 0.5 mg/m3 5 mg/m3 5 mg/m3 5 mg/m3 50 ug/m3 5 ug/m3 5 mg/m3 0.5 mg/m3
Quartz (Silica, Crystalline)	14808-60-7	ACGIH	TWA	0.025 mg/m3
,		NIOSH	REL	0.05 mg/m3
		OSHA Z1A	TWA	0.1 mg/m3
		Z3	TWA	2.4 millions of particles per
				cubic foot of air
		Z3	TWA	0.1 mg/m3
		Z3	TWA	0.3 mg/m3
		US CA OEL	TWA PEL	0.1 mg/m3
		US CA OEL	TWA PEL	0.3 mg/m3
		TX ESL	ST ESL	1 ug/m3
		TX ESL	ST ESL	1 ug/m3
		TX ESL	AN ESL	0.1 ug/m3
		TX ESL TX ESL	AN ESL	0.1 ug/m3
		TX ESL	ST ESL AN ESL	10 ug/m3
		IAESL	TWA	1 ug/m3
Kaolin	1332-58-7	ACGIH	TWA	0.1 mg/m3 2 mg/m3
Radiiii	1002-00-1	ACCIT	1 4 4 7	2 1119/1113

		NIOSH NIOSH US CA OEL TX ESL TX ESL TX ESL TX ESL	REL REL TWA PEL ST ESL AN ESL ST ESL AN ESL TWA	5 mg/m3 10 mg/m3 2 mg/m3 20 ug/m3 20 ug/m3 2 ug/m3 10 mg/m3
Kaolin	1332-58-7	ACGIH NIOSH NIOSH US CA OEL TX ESL TX ESL TX ESL TX ESL	TWA REL REL TWA PEL ST ESL AN ESL ST ESL AN ESL TWA TWA	2 mg/m3 5 mg/m3 10 mg/m3 2 mg/m3 20 ug/m3 20 ug/m3 20 ug/m3 10 mg/m3 5 mg/m3
Calcium carbonate	471-34-1	TX ESL TX ESL	ST ESL AN ESL	50 ug/m3 5 ug/m3
Magnesium carbonate	546-93-0	NIOSH NIOSH OSHA Z1 OSHA Z1 OSHA Z1A OSHA Z1A TX ESL TX ESL	REL REL PEL PEL TWA TWA ST ESL AN ESL TWA TWA	5 mg/m3 10 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 50 ug/m3 5 ug/m3 15 mg/m3 5 mg/m3

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance light tan to brown

Physical State powder

Odor slight

pH 9.0 - 9.5 (10 %) at 25 °C

aqueous suspension

Vapor Pressure no data available

Vapor Density (Air = 1) no data available

Bulk density 47 - 57 lb/ft³

Evaporation rate no data available

Melting / Freezing Point no data available

Water solubility insoluble

Minimum Ignition Energy no data available

Decomposition temperature

no data available

Partition coefficient: n-

octanol/water

no data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid Elevated temperatures

Heat, flames and sparks.

Incompatibility Strong acids

Bases

Hazardous Thermal decomposition can lead to release of:

Decomposition Products nitrogen oxides (NOx)

Carbon oxides Methyl isocyanate

(trace; no adverse effects expected)

Hazardous reactions No hazardous reactions when stored and handled according to prescribed

instructions.

Chemical Stability Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity data have been bridged from a similar granular formulation containing a slightly higher percentage of the active ingredient, carbaryl. The non-acute information pertains to the technical-grade active ingredient.

Acute oral toxicity male rat: LD50: 3,310 mg/kg

female rat: LD50: 2,330 mg/kg

male/female combined rat: LD50: 3,240 mg/kg

Acute dermal toxicity rabbit: LD50: > 2,000 mg/kg

Acute inhalation toxicity rat: LC50: > 4.9 mg/l

Exposure time: 4 h

Determined in the form of dust.

rat: LC50: > 19.6 mg/l Exposure time: 1 h

Determined in the form of dust. Extrapolated from the 4 hr LC50.

Skin irritation rabbit: No skin irritation

Eye irritation rabbit: Mild eye irritation.

Sensitisation guinea pig: Non-sensitizing.

Chronic toxicity Carbaryl causes reversible cholinesterase inhibition. Changes in urinary

bladder, thyroid, kidney and liver were observed in chronic studies in rats.

Assessment Carcinogenicity

Carbaryl has been shown to cause tumors in laboratory animals in lifetime feeding studies.

ACGIH

Carbaryl 63-25-2 Group A4
Quartz (Silica, Crystalline) 14808-60-7 Group A2

NTP

Crystalline quartz (respirable)

IARC

Carbaryl 63-25-2 Overall evaluation: 3 Quartz (Silica, Crystalline) 14808-60-7 Overall evaluation: 1

OSHA None.

Reproductive toxicity REPRODUCTION: Carbaryl was not a reproductive toxicant in a two-generation

study in rats.

DEVELOPMENTAL: Carbaryl was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in both species but were

considered secondary to maternal toxicity.

AssessmentCarbaryl caused tradevent neurobehavioral effects (e.g., tremors) related to cholinergic toxicity without correlating neuropathological changes in acute an

cholinergic toxicity without correlating neuropathological changes in acute and subchronic neurotoxicity studies in rats. Carbaryl did not cause developmental neurotoxic effects in offspring in a one-generation developmental neurotoxicity

study in rats.

Mutagenicity Carbaryl poses only a slight mutagenic risk based on the overall weight of

evidence in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Environmental precautions

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Apply this product as specified on the label.

Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down

any indoor or outdoor drain.

Container Disposal

Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14. TRANSPORT INFORMATION

49CFR

UN-Number 3077 Class 9 Packaging group III

Marine pollutant Marine pollutant

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.

(CARBARYL)

RQ Reportable Quantity is reached with 2,000 lb of product.

IMDG

UN-Number 3077
Class 9
Packaging group III
Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(CARBARYL MIXTURE)

IATA

UN-Number 3077
Class 9
Packaging group III
Environm. Hazardous Mark YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(CARBARYL MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1209-71004

US Federal Regulations

TSCA list

Carbaryl 63-25-2 Quartz (Silica, Crystalline) 14808-60-7 Calcium carbonate 471-34-1 Magnesium carbonate 546-93-0

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Carbaryl 63-25-2 1.0%

US States Regulatory Reporting

CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Crystalline quartz (respirable)

This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Carbaryl 63-25-2 Male reproductive toxin.

US State Right-To-Know Ingredients

Carbaryl 63-25-2 CA, CT, IL, MN, NJ, RI

Quartz (Silica, Crystalline) 14808-60-7 IL. MA Magnesium carbonate 546-93-0 IL, MN, RI

Canadian Regulations

Canadian Domestic Substance List

Quartz (Silica, Crystalline) 14808-60-7 Calcium carbonate 471-34-1 Magnesium carbonate 546-93-0

Environmental

CERCLA

Carbaryl 63-25-2 100 lbs

Clean Water Section 307 Priority Pollutants

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Carbaryl 63-25-2 Quartz (Silica, Crystalline) 14808-60-7 Calcium carbonate 471-34-1 Magnesium carbonate 546-93-0

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 1 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1* Flammability - 1 Physical Hazard - 1 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

The information contained herein is offered only as a guide to the handling of this specific material. Since such information does not relate to use of the material with any other material or in any process, any person using this information must determine for himself its suitability for any particular application. The buyer and user assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.