

MATERIAL SAFETY DATA SHEET

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PRODUCT INFORMATION

Product Identifier **QUINTOZENE 75% WETTABLE POWDER (PCP# 11425)**

Supplier's Name PLANT PRODUCTS CO. LTD.
Address 314 ORENDA ROAD
BRAMPTON, ONTARIO
L6T 1G1

Emergency Phone Number 1-613-996-6666

Product Use AGRICULTURAL FUNGICIDE

HAZARDOUS INGREDIENTS

Hazardous Ingredients	C.A.S. / N.A. / UN No.	%	LD ₅₀
PENTACHLORONITROBENZENE (PCNB)	82-68-8	75	>3670 mg/kg (ORAL, RAT)

WHMIS CLASSIFICATION: EXEMPT – PEST CONTROL PRODUCTS ACT

PHYSICAL DATA

Physical State: SOLID	Odour and Appearance: FINE POWDER CHARACTERISTIC COLOUR
Odour Threshold (ppm): ND	Specific Gravity: ND
Vapour Pressure (mmHg C 20° C): ND	Vapour Density (AM=1): ND
Evaporation Rate: ND	Boiling Point: ND
Freezing Point: ND	Density: ND
pH: ND	

FIRE AND EXPLOSION HAZARD

Flammability:

Means of Extinction: WATER SPRAY/FOG, FOAM, CARBON DIOXIDE, DRY CHEMICAL. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS TO PREVENT INHALATION OF COMBUSTION PRODUCTS. USE MINIMUM AMOUNTS OF EXTINGUISHING AGENT AND CONTAIN RUN-OFF. MAY FORM EXPLOSIVE DUST MIXTURE IN AIR.

Flashpoint: ND UEL: ND LEL: ND

Auto-ignition Temperature: ND TDG Flammability Class:

Hazardous Combustion Products:

REACTIVITY DATA

Chemical Stability: STABLE AT AMBIENT TEMPERATURES AND PRESSURES.

Incompatibility: HYDROLYSES WITH STRONG ACIDS AND ALKALIS.

Conditions of Reactivity:

Hazardous Decomposition Products: PHOSGENE, HYDROGEN CHLORIDE, OXIDES OF CARBON AND NITROGEN ON COMBUSTION

TOXICOLOGICAL PROPERTIES

Route of Entry:

Effects of Acute or Chronic Exposure:

SKIN CONTACT - MAY CAUSE IRRITATION. DERMAL LD₅₀ (RABBIT) >1000 mg/kg. NO CHRONIC EFFECTS WERE SEEN IN 21-DAY RABBIT DERMAL STUDY.

EYE CONTACT - CONTACT WITH EYES MAY CAUSE IRRITATION.

INHALATION - EXPOSURE MAY OCCUR THROUGH INHALATION.

INGESTION - ORAL LD₅₀, RAT > 3670 mg/kg. IN A LONG-TERM FEEDING STUDY IN DOGS EFFECTS WERE SEEN ON LIVER HISTOPATHOLOGY ACCOMPANIED BY AN INCREASE IN SERUM ALKALINE PHOSPHATASE. IN LONG-TERM FEEDING STUDIES IN RATS EFFECTS WERE SEEN ON BODY WEIGHT, LIVER AND THYROID HISTOPATHOLOGY INCLUDING AN INCREASE INCIDENCE OF THYROID FOLLICULAR TUMOURS. DECREASED BLOOD THYROXINE AND INCREASED BLOOD THYROID STIMULATING HORMONE LEVELS WERE ALSO SEEN. THE THYROID TUMOURS SEEN IN THE RAT CHRONIC STUDY WERE THE RESULT OF ALTERED THYROID HORMONE LEVELS.

Exposure Limits:

0.5 mg/m³ TLV (ACGIH 2002)

Synergistic Products:

ND

Sensitization / Irritancy:

SKIN, GUINEA PIG - POSITIVE

Carcinogenicity: TESTING INDICATES THAT PCNB IS AN EXPERIMENTAL ANIMAL CARCINOGEN. ACGIH LISTING A4 (PCNB); IARC: NOT APPLICABLE. NO INCREASE IN TUMOUR INCIDENCE WAS NOTED IN MICE FED PCNB FOR TWO YEARS. EFFECTS WERE SEEN ON BODY WEIGHT.

Teratogenicity: IN A RABBIT STUDY MATERNAL TOXICITY, AS EVIDENCE BY MORTALITY, ABORTION AND DECREASED WEIGHT GAIN, WAS OBSERVED ALONG WITH DEVELOPMENT EFFECTS IN THE FORM OF REDUCED FETAL BODY WEIGHT. NO TERATOGENIC EFFECTS WERE SEEN. IN A RAT STUDY MATERNAL TOXICITY, AS EVIDENCED BY DECEREASED BODY WEIGHT GAIN, WAS SEEN. NO TERATOGENIC OR DEVELOPMENTAL EFFECTS WERE OBSERVED.

Reproductive Effects: IN A RAT STUDY EFFECTS WERE SEEN ON PARENTAL AND PUP BODY WEIGHT. NO EFFECTS ON REPRODUCTION WERE OBSERVED.

Mutagenicity: PCNB HAS BEEN EVALUATED IN SEVERAL SHORT-TERM MUTAGENICITY ASSAYS. POSITIVE RESULTS WERE OBTAINED IN THE CHO CHROMOSOMAL ABERRATION ASSAY.

PREVENTIVE MEASURES

Personal Protective Equipment:

SKIN - NIOSH IMPERVIOUS GLOVES (RUBBER, NEOPRENE, NITRILE OR NATURAL RUBBER)

INHALATION - APPROVED RESPIRATOR FOR PARTICULATES AND ORGANIC VAPOURS

EYES - CHEMICAL SAFETY GOGGLES

Engineering Controls: LOCAL EXHAUST RECOMMENDED. WEAR RESPIRATORY PROTECTION IN THE ABSENCE OF ADEQUATE VENTILATION.

Leak or Spill Procedure: CLEANUP PERSONNEL SHOULD WEAR PERSONAL PROTECTIVE EQUIPMENT. CONTAIN LARGE SPILLS. VACUUM OR SHOVEL POWDER INTO SUITABLE CONTAINERS. AVOID CREATING DUST. ABSORB LIQUID SPILLS CONTAINING THIS PRODUCT ON AN INERT, NON-COMBUSTIBLE ABSORBENT. PUT INTO CONTAINERS FOR DISPOSAL.

PREVENTIVE MEASURES (continued)

Disposal: DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

Handling Procedures and Equipment: HANDLE IN A WELL VENTILATED AREA. LOCAL EXHAUST RECOMMENDED. USE PERSONAL PROTECTIVE EQUIPMENT TO PREVENT CONTACT WITH SKIN AND EYES.

Storage Requirements: STORE IN A COOL, DRY PLACE. DO NOT STORE NEAR FOOD, FEED OR FERTILIZERS. DO NOT CONTAMINATE PONDS, LAKES, STREAMS OR ANY SOURCE OF WATER.

Shipping Information:
NOT REGULATED BY TDG

FIRST AID MEASURES

SKIN - WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS OR DERMATITIS DEVELOPS.

EYES - IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION.

INHALATION - REMOVE TO FRESH AIR. AID OR RESTORE BREATHING IF NECESSARY. GET MEDICAL ATTENTION.

INGESTION - IT SHOULD NOT BE NECESSARY TO INDUCE VOMITING. IF CONSCIOUS, GIVE 1-2 GLASSES OF WATER. DO NOT GIVE ANYTHING BY MOUTH IF PERSON IS UNCONSCIOUS. CONTACT PHYSICIAN IMMEDIATELY.

NOTE TO PHYSICIAN: WATCH FOR PULMONARY EDEMA. THE ADMINISTRATION OF BARBITURATES IS BENEFICIAL. AVOID ADRENALINE AND MORPHINE. OXYGEN MAY BE INDICATED.

ADDITIONAL INFORMATION

PCNB IS VERY TOXIC TO AQUATIC SPECIES AND PRATICALLY NON-TOXIC TO AVIAN AND OTHER SPECIES.

LC₅₀ 96 hr, RAINBOW TROUT: 0.55 ppm
LC₅₀ 96 hr, BLUEGILL SUNFISH: 0.1 ppm
LC₅₀ 48 hr, DAPHNIA MAGNA: 0.77 ppm
LC₅₀ 96 hr, SHEEPSHEAD MINNOW: 1.5 ppm
LC₅₀ 96 hr, MYSID SHRIMP: 0.012 ppm
EARLY LIFESTAGE – FATHEAD MINNOW :24-54µ/1

LC₅₀ 8 day, MALLARD DUCK: >5000 ppm
LC₅₀ 8 day, BOBWHITE QUAIL: > 5000 mg/kg
LD₅₀ MALLARD DUCK: >2000 mg/kg
LD₅₀ HONEY BEE: >100 µg/bee
EC₅₀ 96 HR, OYSTER: 0.29 ppm

PREPARATION INFORMATION

Department:

Phone Number:

Date:

TECHNICAL

(905) 793-7000

SEPTEMBER 2008

NA - Not Applicable
ND - Not Determined