# MATERIAL SAFETY DATA SHEET



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#### TRANSPORTATION EMERGENCY **EMERGENCY AND PRODUCT INFORMATION** CHEMTREC: .....(800)-424-9300 OHP, Inc.: .....(800)-356-4647 **DECATHLON® 20 WP Greenouse and Nursery Insecticide** EPA Registration Number: 432-1402-59807 I. CHEMICAL PRODUCT INFORMATION MEDICAL CONDITIONS PRODUCT NAME ..... Decathlon® 20 WP **AGGRAVATED** Greenhouse and Nursery Insecticide BY EXPOSURE . . . . . . . . . No specific medical condi-CHEMICAL FAMILY ..... Pyrethroid Insecticide tions are known which may be aggravated by exposure to this product. As with all materials which can cause PRODUCT USE . . . . . . . . . . . . Broad-spectrum insecticide upper respiratory tract irritation, persons with a history for the control of crawling, flying, and other insect pests of asthma, emphysema, or hyperreactive airways disfor indoor and outdoor uses. ease may be more susceptible to over exposure. Plumonary and respiratory diseases may be aggravated **II. COMPOSITION / INFORMATION ON INGREDIENTS** by exposure to respirable crystalline silica. Hazardous Component % Average IV. FIRST AID MEASURES Name CAS No. by Weight General ...... Have the product con-Cyfluthrin 68359-37-5 20.00 tainer or label with you when calling a poison control Quartz (Silica, Crystalline) 14808-60-7 4 00 center or doctor or going for treatment. **Eye** . . . . . . . . . . . . Hold eye open and rinse III. HAZARDS IDENTIFICATION slowly and gently with water for 15-20 minutes. Remove NOTE: Please refer to Section XI for detailed toxicological informacontact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or Emergency Overview Caution! Harmful if swallowed, inhaled or doctor for treatment advice. absorbed through the skin. Irritating to eyes. Keep out of reach of chil-Skin ...... Take off all contaminated dren and domestic animals. Avoid breathing dust or spray mist. clothing immediately. Wash off immediately with plenty Physical State . . . . . . . . . . . . Solid Powder of water for at least 15 minutes. Call a poison control center or doctor for treatment advice. Ingestion . . . . . . . . . . . . . . . . Call a poison control Appearance: Tan center or doctor immediately for treatment advice. Routes of Exposure ...... Inhalation, Skin Absorption, Have person sip a glass of water if able to swallow. DO Eye contact, ..... Skin contact NOT induce vomiting unless directed to do so by a IMMEDIATE EFFECTS physician or poison control center. Do not give anything by mouth to an unconscious or convulsing person. **Eye** ...... Wear protective eyewear. Do not get in eyes. Mild eye irritation Inhalation ...... Move to fresh air. If person is not breathing, call 911 or an ambulance, then Skin ..... Mild skin irritant. May give artificial respiration, preferably mouth-to-mouth if cause a transient, localized paresthesia, characterized possible. Call a poison control center or doctor for by tingling, burning or numbness sensation in some treatment advice. individuals. Notes to Physician Ingestion ...... Harmful if swallowed. **Treatment** . . . . . . . . . . Treat Symptomatically. Inhalation . . . . . . . . . . . . Irritation of mucous mem-There is no specific antidote. branes. Avoid breathing dust or spray mist. Mist may cause irritation involving the nose, throat and upper V. FIRE FIGHTING MEASURES respiratory tract during the end use of the product such as during a spray application. **CHRONIC OR DELAYED** Autoignition Temperature ........ Not combustible LONG-TERM . . . . . . . . . . . This product is not listed as Suitable Exitinguishing Media . . . .: Water, Dry chemical a carcinogen by ACGIH, NTP IARC or OSHA. However, Fire Fighting Instructions . . . . . . . . Stay upwind if possible. it may contain crystalline silica (quartz), a substance Firefighters should wear NIOSH approved self-conwhich has been listed as a naturally-occurring mineral tained breathing apparatus and full protective clothing. component of many sands and clays. Although the carcinogenic potential of crys-talline silica in humans in VI. ACCIDENTAL RELEASE MEASURES controversial, it must be considered if it is inhaled under

Methods for Cleanup . . . . . . . . . Isolate hazard area. Wear

appropriate gear for the situation. See Personal

Protection Information in Section VIII. Sweep up and

excessive exposure conditions. The respirable portion

of the silica that may be contained in this product, how-

ever, is small, such that excessive inhalation expo-sure

during anticipated conditions of use is unlikely.

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shovel into suitable containers for disposal. Do not allow spilt product to enter soil or waterways. Do not enter confined spaces unless adequately ventilated.

Clean contaminated floors and objects thoroughly with water and detergent, observing environmental regulations. Decon-taminate tools and equipment following cleanup.

# **VII. HANDLING AND STORAGE**

**Handling Procedures** .........: Wash with soap and water after handling. Avoid breathing dust.

Store in an area that is dry and well-ventilated.

Min / Max Storage

exceed 120° F.

## **VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Controls . . . . . . . . Ensure adequate ventilation, especially in confined areas. Provide exhaust ventilation.

Control airborne concentrations below the exposure quidelines

**Eye/Face Protection** . . . . . Chemical resistant goggles must be worn.

 Hand Protection
 ...
 Chemical resistant gloves.

 Body Protection
 ...
 Long-sleeved shirt and long

pants. 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.

**Exposure Limits** 

Quartz (Silica, Crystalline) 14808-60-7 ACGIH TWA 0.05 mg/m3 Form of Exposure Respirable fraction.

ACGIH NIC TWA 0.025 mg/m3

Form of Exposure Respirable fraction.

NIOSH REL 0.05 mg/m3

Form of Exposure Respirable dust.

OSHA Z1A TWA 0.1 mg/m3

Form of Exposure Respirable dust.

US CA OEL TWA PEL 0.1 mg/m3 Form of Exposure Respirable dust.

US CA OEL TWA PEL 0.3 mg/m3

Form of Exposure Total dust.

OSHA Z1PEL 15 mg/m3

Form of Exposure Total dust.

OSHA Z1PEL 5 mg/m3

Form of Exposure Respirable fraction.

Z3 TWA 2.4 millions of par-

TWA 2.4 millions of partiles per cubic foot of

air.

Form of Exposure

Remarks The value is calculated from

a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

Respirable.

Z3 TWA 0.1 mg/m3

Form of Exposure Respirable.

Remarks The value is calculated from

a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

Z3 TWA 0.3 mg/m3

Form of Exposure Total dust.

Remarks The value is calculated from

a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateSolid PowderOdorAromatic

Water Solubility ...... No data available

 pH
 ...
 9.2 (as aqueous solution)

 Vapor Pressure
 ...
 >0.0000001 h Pa at 20° C

 Bulk Density
 ...
 20 - 26 lbs. / cu. - ft.

X. STABILITY AND REACTIVITY

Chemical Stability . . . . . . . . . . Stable under normal condi-

tions.

**Conditions to Avoid** . . . . . . . . . Exposure to extreme heat.

Exposure to moisture.

Incompatibility ..... Methanol, Alkali metals,

Alkaline earth metals, Light and/or alkaline metals,

Bases

Hazardous Polymerization . . . . . : Will not occur.

## XI. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the active ingredient, cyfluthrin.

Acute Oral Toxicity . . . . . . . . . . . Male Rat: LD50: 3,084 mg/kg

Female Rat: LD50: 1,733 mg/kg

Acute Dermal Toxicity . . . . . . . . . . Male/Female Rabbit

LD50: > 2,000 mg/kg

Acute Inhalation Toxicity . . . . . . . . Male/Female Rat: LC50: 4-hr

exposure to dust: >1.18 mg/l Maximum attainable con-

centration. (actual)

Male/Female Rat: 1-hr expo-

sure to dust. (extrapolated from 4-hr LC50); > 4.72 mg/l

(actual)

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Skin Irritation . . . . . . . . . . . . . . . . Rabbit: slight irritation **Eye Irritation** . . . . . . . . . . . . . Rabbit: Mild eye irritation Sensitization ...... Guinea pig: non-sensitizing Subchronic Toxicity . . . . . . . . . In a 3-week dermal toxicity study in rats treated with cyfluthrin, effects observed included clinical signs of toxicity, as well as, topical and microscopic alterations in the treated tissue at the dose In a 13 week inhalation study in rats exposed to cyfluthrin, effects included reduced body weight gains and non-specific behavioral disturbances at the midand high concentrations (0.71 and 4.5 mg/cu-m). Chronic Toxicity ...... In chronic dietary studies in rats treated with cyfluthrin, compound-related effects included decreased body weight gains and slight changes in clinical chemistries. In chronic dietary studies in dogs treated with cyfluthrin, compound-related effects were observed at the higher concentrations (>360 ppm). These effects included an increased incidence of vomiting, decreased body weights, soft feces and clinical neurological symptoms. Assessment Carcinogenicity . . . . : In oncongenicity studies in rats and mice, cyfluthrin was not considered carcinogenic in either species. **ACGIH** Crystalline Silica (Quartz) 14808-60-7 Group A2 NTP Crystalline Silica (Quartz) 14808-60-7 Crystalline Silica (Quartz) 14808-60-7 Overal evaluation: 1 **OSHA** None Reproductive & Developmental Toxicity . . . . . : REPRODUCTIVE TOXICOLOGY: In reproduction studies in rats treated with cyfluthrin, reproductive effects occurred in conjunction with parental toxicity. These effects included reductions in viability, lactation, litter size, feed consumption and body weights. In addition, coarse tremors were observed in offspring at higher concentrations (ca. 125 ppm). DEVELOPEMTNAL TOXICITY: In developmental toxicology studies in rats treated with cyfluthrin, there were no embryotoxic or teratogenic effects via the oral route of exposure. When rats were exposed to cyfluthrin via inhalation, embryotoxic effects occurred in conjunction with maternal toxicity. In rabbits treated orally with cyfluthrin, there was an increased incidence of post implantation losses at maternally toxic dose levels. **Neurotoxicity** ...... In neurotoxicity studies with cyfluthrin, minimal nerve damage occurred in rats and hens treated by oral gavage. In dermal and inhalation studies, which are more relevant to field exposure, there was no evidence of delayed neurtoxicity in hens treated with cyfluthrin. In a special investigative inhalation study with cyfluthrin in neonatal mice, effects observed included clinical signs of toxicity, mortality and neurobehavioral effects indicative of treatmentrelated hyperactivity. There were no correlation morphological changes in neural tissues in mice at 4 months of age. Mutagenicity ...... Numerous in vitro and in vivo mutagencity studies have been conducted on cyfluthrin, all of which are negative.

XII. ECOLOGICAL INFORMATION

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

This product is highly toxic to bees exposed to direct treatment of residues on blooming crops or weeds. Do not apply it or allow it to drift to crops or weeds on which bees are actively foraging.

## XIII. DISPOSAL CONSIDERATIONS

#### **General Disposal Guidance**

Pesticide Disposal . . . . . . . . Do not contaminate water, food, of feed by disposal. Pesticide, spray mixture or rinse water that cannot be used according to label instructions maybe disposed of at an approved waste facility. Pesticide wastes are acutely toxic hazardous. Keep away from food, drink and animal feeding stuffs. Do not re-use empty containers.

Container Disposal . . . . . . . . . Packaging that cannot be cleaned should be disposed of as product waste.

Uncontrolled disposal or recycling of this packaging is not permitted and can be dangerous.

## **XIV.TRANSPORT INFORMATION**

DOT CLASSIFICATION: .........: Not regulated for Domestic Surface Transportation

# XV. REGULATORY INFORMATION

**US Federal Regulations** 

**TSCA list** 

Quartz (Silica, Crystalline) 14808-60-7

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
Cyfluthrin 68359-37-5 1.0%

# US States Regulatory Reporting CA Prop65

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

Quartz (Silica, Crystalline) 14808-60-7

This product does not contain any substances known to the State of California to cause reproductive harm.

# US State right-to-know ingredients

Cyfluthrin 68359-37-5 NJ

Quartz (Silica, Crystalline) 14808-60-7 IL, MA, MN, RI

# **Canadian Regulations**

Canadian Domestic Substance List

Quartz (Silica, Crystalline) 14808-60-7

# Environmental

**CERCLA** 

None

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**Clean Water Section 307 Priority Pollutants** 

None

Safe Drinking Water Act Maximum Contaminant Levels

None

# **XVI. OTHER INFORMATION**

Health Flammability Reactivity Others

NFPA 2 1 1 None

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard,

3 = severe hazard, 4 = extreme hazard

Reason to Revise: -3/15/2005

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.

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