

DECATHLON® 20 WP GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration Number: 432-1402-59807

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name DECATHLON® 20 WP
GREENHOUSE AND NURSERY INSECTICIDE

EPA Registration No. 432-1402-59807

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

Restrictions on use See product label for
restrictions.

Company information OHP, Inc.
PO Box 51230
Mainland, PA 19451
(800) 659-6745

Emergency telephone number

TRANSPORTATION EMERGENCY

(24 hours a day) call Chemtrec: 1-800-424-9300

MEDICAL EMERGENCY (24 hours a day) and Product
Information call 1-800-356-4647

SDS Information or

Request ohp.com

2. HAZARDS IDENTIFICATION

Classification in accordance with regulation
HCS 29CFR §1910.1200

Acute toxicity (Oral) Category 4



Signal word Warning

Hazard statements

Harmful if swallowed.

Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a POISON CENTER/doctor/
physician if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with lo-
cal regulation.

Other hazards No other hazards known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS No.	Concentration % by weight
Cyfluthrin	68359-37-5	20.0
Crystalline quartz (respirable)	14808-60-7	3.3

4. FIRST AID MEASURES

Description of first aid measures

General advice When possible, have the
product container or label with you when calling a
poison control center or doctor or going for treatment.

Inhalation Move to fresh air. If per-
son 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.

Skin contact Take off contaminated
clothing and shoes immediately. Wash off immedi-
ately with plenty of water for at least 15 minutes. Call
a physician or poison control center immediately.

Eye contact Hold eye open and rinse
slowly and gently with water for 15-20 minutes.
Remove contact lenses, if present, after the first 5
minutes, then continue rinsing eye. 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 vomit-
ing 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 unattend-
ed.

Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are
known.

Indication of any immediate medical attention and spe- cial treatment needed

Treatment Appropriate supportive
and symptomatic treatment as indicated by the pa-
tient's condition is recommended. There is no spe-
cific antidote.

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5. FIREFIGHTING MEASURES

Extinguishing media

Suitable: Water, Dry chemical

Unsuitable: None known.

Special hazards arising from the substance or mixture : Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters: Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information: Fight fire from upwind position. Evacuate personnel to safe areas. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point: not applicable

Autoignition temperature : no data available

Lower explosion limit : not applicable

Upper explosion limit : not applicable

Explosivity: no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions: Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Do not enter confined spaces unless adequately ventilated. Use personal protective equipment.

Methods and materials for containment and cleaning up

Methods for cleaning up . . . : Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

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

Reference to other sections: Information regarding personal protective equipment, see section 8. Information regarding safe handling, see section 7. Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling . . . : Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion: Keep away from heat and sources of ignition.

Hygiene measures: 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. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: 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. Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage: Keep away from food, drink and animal feedingstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Cyfluthrin (Particulate.)	68359-37-5	5ug/m3 (AN ESL)	02 2013	TX ESL
Cyfluthrin (Particulate.)	68359-37-5	50ug/m3 (ST ESL)	02 2013	TX ESL
Cyfluthrin	68359-37-5	0.01 mg/m3 (TWA)		OES BCS*
Crystalline quartz (respirable) (Respirable fraction.)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.05 mg/m3 (REL)	2010	NIOSH

Control parameters continued next column

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Control parameters *continued*

Components	CAS-No.	Control parameters	Update	Basis
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	1989	OSHA Z1A
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	0.27ug/m3 (AN ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Particulate.)	14808-60-7	14ug/m3 (ST ESL)	02 2013	TX ESL
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA)	2000	Z3
Crystalline quartz (respirable) (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
Crystalline quartz (Respirable.)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

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.

Hand protection : Chemical resistant nitrile rubber gloves

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear long-sleeved shirt and long pants and shoes plus socks.

General protective

measures : 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : tan

Physical State : powder

Odor : aromatic

Odour Threshold : no data available

pH : 9.2 (as aqueous solution)

Vapor Pressure : < 0.0000001 hPa at 20 °C

Vapor Density (Air = 1) : no data available

Bulk density : 18.0 - 26 lb/ft³

Evaporation rate : not applicable

Boiling Point : not applicable

Melting / Freezing Point . . . : not applicable

Water solubility : dispersible

Minimum Ignition Energy . . . : not applicable

Decomposition

temperature : no data available

Partition coefficient:

n-octanol/water : not applicable

Viscosity : not applicable

Flash point : not applicable

Autoignition temperature . . : no data available

Lower explosion limit : not applicable

Upper explosion limit : not applicable

Explosivity : no data available

10. STABILITY AND REACTIVITY

Reactivity

Thermal decomposition . . . : no data available

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat, flames and sparks.
Exposure to moisture.

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Incompatible materials : Methanol, Alkali metals,
Alkaline earth metals, Bases, Light metals

Hazardous decomposition products : No decomposition products expected under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation, Skin Absorption, Eye contact, Skin contact

Immediate Effects

Eye : Mild eye irritation.

Skin : Mild skin irritant. May cause a transient, localized paresthesia, characterized by tingling, burning or numbness sensation in some individuals.

Ingestion : Harmful if swallowed.

Inhalation : Mist may cause irritation involving the nose, throat and upper respiratory tract during the end use of the product such as during a spray application.

Information on toxicological effects

Acute oral toxicity : LD50 (male rat)
3,084 mg/kg
LD50 (female rat)
1,733 mg/kg

Acute inhalation toxicity . . : LC50 (male/female combined rat) > 1.18 mg/l
Exposure time: 4 h
Determined in the form of dust.
Highest attainable concentration. (actual)

LC50 (male/female combined rat) > 4.72 mg/l
Exposure time: 1 h
Determined in the form of dust.
Highest attainable concentration.
Extrapolated from the 4 hr LC50. (actual)

Acute dermal toxicity : LD50 (male/female combined rabbit)
> 2,000 mg/kg

Skin irritation : Slight irritation (rabbit)

Eye irritation : Mild eye irritation. (rabbit)

Sensitisation : Non-sensitizing.
(guinea pig)

Assessment repeated dose toxicity

The toxic effects of Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Assessment mutagenicity

Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

Crystalline quartz (respirable) 14808-60-7 Group A2

NTP

Crystalline quartz (respirable) 14808-60-7 2000

IARC

Crystalline quartz (respirable) 14808-60-7 Overall evaluation: 1

OSHA

None.

Assessment toxicity to reproduction

Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Cyfluthrin is related to parental toxicity.

Assessment developmental toxicity

Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Cyfluthrin are related to maternal toxicity.

Further information

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

12. ECOLOGICAL INFORMATION

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout))
0.00047 mg/l
Exposure time: 96 h

The value mentioned relates to the active ingredient cyfluthrin.

Toxicity to aquatic invertebrates : EC50 (Daphnia magna (Water flea)) 0.00016 mg/l
Exposure time: 48 h

The value mentioned relates to the active ingredient cyfluthrin.

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Toxicity to aquatic plants : IC50 (Desmodium subspicatus) > 10 mg/l
Growth rate;
Exposure time: 72 h
The value mentioned relates to the active ingredient cyfluthrin.

Biodegradability : Cyfluthrin : not rapidly biodegradable

Koc : Cyfluthrin: Koc: 64300

Bioaccumulation : Cyfluthrin: Bioconcentration factor (BCF) 506; Does not bioaccumulate.

Mobility in soil : Cyfluthrin: Immobile in soil

Environmental

precautions : Drift and runoff from treated areas may be hazardous to 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 as specified on the label.

Do not allow to get into surface water, drains and ground water.

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 apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

14. TRANSPORTATION INFORMATION

49CFR : Not dangerous goods / not hazardous material

IMDG

UN number : 3077

Class : 9

Packaging group : III

Marine pollutant : YES

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYFLUTHRIN MIXTURE)

IATA

UN number : 3077

Class : 9

Packaging group : III

Environm. Hazardous

Mark : YES

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYFLUTHRIN 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.

Freight Classification : INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product : Do not contaminate water, food, or feed by disposal.
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Do not re-use empty containers.

Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.

If burned, stay out of smoke.

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.

15. REGULATORY INFORMATION

EPA Registration No. : 432-1402-59807

US Federal Regulations

TSCA list

Crystalline quartz (respirable) 14808-60-7

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) : None.

SARA Title III - Section 302 - Notification and Information : None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Cyfluthrin	68359-37-5	25,000 lbs
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US States Regulatory Reporting

CA Prop65

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

Crystalline quartz (respirable) 14808-60-7

US State Right-To-Know Ingredients

Cyfluthrin 68359-37-5 NJ, RI

Crystalline quartz (respirable) 14808-60-7 MN

Canadian Regulations

Canadian Domestic Substance List

Crystalline quartz (respirable) 14808-60-7

Environmental

CERCLA: None.

Clean Water Section 307

Priority Pollutants: None.

Safe Drinking Water Act Maximum

Contaminant Levels: None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Crystalline quartz (respirable) 14808-60-7

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements: Moderate eye irritation.

Harmful if swallowed, inhaled or absorbed through the skin.

Do not get in eyes, on skin, or on clothing.

Avoid breathing dust or spray mist.

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

Remove and wash contaminated clothing before re-use.

16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 1 Others - none

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

Health - 2 Flammability - 0 Physical Hazard - 0 PPE -

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

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 03/06/2015

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

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