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

Product information

Product Name:	TEMPO 20 WP
MSDS Number:	122000007062

Use : Pesticide

Company
BAYER HEALTHCARE LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtrec: (800) 424-9300
BAYER INFORMATION PHONE:(800) 633-3796
INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING! Colour: brown **Form:** solid Powder **Odour:** weak, aromatic.
May be harmful if inhaled. May cause respiratory tract irritation. May irritate skin. May cause eye irritation. May cause lung damage.

Hazard Communication (29CFR 1910.1200)

Eye Contact Inhalation Skin Contact Ingestion

Acute Inhalation Hazards

Expected to be toxic by inhalation. Inhalation is unlikely due to the low vapor pressure. If misted or handled at elevated temperatures, high concentrations may cause respiratory tract irritation. May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion.

Acute Skin Hazards

Slightly toxic by skin absorption. May cause slight irritation. Paraesthesia (a tingling or burning sensation on the surface of the skin) may result from skin contact with synthetic pyrethroids and normally subsides without treatment within 24 hours.

Acute Eye Hazards	May cause slight irritation.
Acute Ingestion Hazards	Toxic by ingestion
Chronic Effects of Exposure	Prolonged inhalation of fine quartz dust may produce in susceptible persons silicosis.Fine quartz dust has no acute toxicity. Ingestion of fine quartz dust is harmless. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This product is not listed as a carcinogen by ACGIH, NTP, IARC, or OSHA. However, it may contain crystalline silica (quartz), 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 crystallin 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 mall such that inhalation exposure during anticipated conditions of use is minimal.
Medical Conditions Aggrevated by Exposure	Respiratory tract disorders

Quartz	**NTP** - Hazard Designation: Known carcinogen.
	IARC - Overall evaluation: Human carcinogen.
Tradesecret	**IARC** - Overall evaluation: Not classifiable as to carcinogenicity to humans.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Weight percent	Components	CAS-No.
10 - 30%	Cyfluthrin	68359-37-5
3 - 7%	Quartz	14808-60-7
40 - 70%	Tradesecret	

4. FIRST AID MEASURES

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

Contact Number: Use the Bayer Emergency Number in Section 1

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Any

Specific hazards during fire fighting: Fire may cause evolution of: Carbon monoxide Carbon dioxide (CO2)

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Additional advice: Avoid dust formation.

Further Accidental Release Notes Avoid dust formation.

7. HANDLING AND STORAGE

Handling:
Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Quartz (14808-60-7)
US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 0.025 mg/m3 (Respirable fraction.)
US. NIOSH: Pocket Guide to Chemical Hazards
Recommended exposure limit (REL): 0.05 mg/m3 (Respirable dust.)
US. ACGIH Threshold Limit Values
Hazard Designation: Suspected human carcinogen.

Respiratory protection:
Recommended Filter type: HEPA

Hand protection:
Chemically resistant gloves.

Eye protection:
Safety glasses

Other protective measures:
Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder
Colour:	brown
Odour:	weak aromatic
Density:	no data available
Bulk density:	1,123 - 1,460 kg/m3
Vapour pressure:	not applicable
Water solubility:	insoluble
pH:	9.2 at 10 g/l Aqueous suspension
Partition coefficient (n-octanol/water):	no data available

Solubility in organic solvents:	no data available	
Flash point:		
Ignition temperature:	224.6 °F (107 °C)	DIN 51758
Ignition temperature:	no data available	

10. STABILITY AND REACTIVITY

Conditions to avoid: Do not allow product to come in contact with:
Heat
Exposure to moisture

Materials to avoid: Alkali metals, Alkaline earth metals, Bases, Alcohols

Hazardous reactions: None known.

Thermal decomposition:

no data available

Hazardous decomposition products:
Carbon monoxide, Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:
LD50 rat , male : 3,084 mg/kg

LD50 rat , female : 1,733 mg/kg

Acute inhalation toxicity:
LC50 rat: > 1.18 mg/l, 4 h

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

Skin irritation:
rabbit
Result: Mild skin irritation

Eye irritation:
rabbit
Result: Mild eye irritation

Sensitisation:
guinea pig
Result: Non-sensitizer

12. ECOLOGICAL INFORMATION

General advice:
Do not allow to enter surface waters or groundwater.

Toxicity to fish:
Cyfluthrin
Acute Fish toxicity: LC50 0.00047 mg/l
Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 0.0032 mg/l
Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Acute Fish toxicity: LC50 0.0032 mg/l
Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates:
Cyfluthrin
EC50 0.00016 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 48 h

Toxicity to algae:
Cyfluthrin
IC50 > 10 mg/l
tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Toxicity to bacteria:
Cyfluthrin
EC50 > 10,000 mg/l
tested on: activated sludge micro-organism
Method: OECD TG 209

Biodegradability:
> 70 %, 28 d Readily biodegradable.

Bioaccumulation:
Cyfluthrin

Bioconcentration factor (BCF)
506

Further information on ecology:

Dissolved organic carbon (DOC): 1.840 mg/g

13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or

by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Land transport (DOT)
Non-Regulated

Inland waterway transport
Non-Regulated

Railway transport
Non-Regulated

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO / IATA cargo aircraft only)
Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)
Non-Regulated

15. REGULATORY INFORMATION

FIFRA Status	This product is registered with the EPA under FIFRA.
US. Toxic Substances Control Act	This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)
Components
None

SARA Section 311/312 Hazard Categories	Immediate Health Hazard, Delayed Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required
Components
Cyfluthrin

US. EPA CERCLA Hazardous Substances (40 CFR 302)Components
None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent	Components	CAS-No.
3 - 7%	Quartz	14808-60-7

3 - 7%

California Prop. 65
WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Carcinogenic.

Weight percent	Components	CAS-No.
3 - 7%	Quartz	14808-60-7
40 - 70%	Tradesecret	
<0.001%	Naphthalene	91-20-3

OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

NFPA 704M Rating

Health	2
Flammability	1
Reactivity	1
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.