

# Safety Data Sheet

## ATTAIN TR

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Version: 1.1

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(30472314/SDS\_CPA\_US/EN)

### 1. Product and Company Identification

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

Registrant:  
Whitmire Micro-Gen Research Laboratories, Inc.  
3568 Tree Court Industrial Blvd.  
St. Louis, MO 63122

Substance number: 000000414101  
Synonyms: Bifenthrin

### 2. Hazards Identification

#### Emergency overview

WARNING:  
KEEP OUT OF REACH OF CHILDREN.  
KEEP OUT OF REACH OF DOMESTIC ANIMALS.  
Causes substantial but temporary eye injury.  
HARMFUL IF SWALLOWED.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.  
May produce an allergic reaction.  
Avoid prolonged and/or repeated contact with the skin.  
Aerosol container contains flammable gas under pressure.

See Product Label for additional precautionary statements.

State of matter: liquid  
Colour: clear  
Odour: characteristic

#### Potential health effects

##### **Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Acute toxicity:**

Slightly toxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### **Irritation / corrosion:**

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Causes substantial but temporary eye injury. May cause slight irritation to the skin.

**Sensitization:**

Caused skin sensitization in animal studies.

**Potential environmental effects**

**Aquatic toxicity:**

Very toxic (acute effect) to aquatic organisms. Very toxic (acute effect) to fish.

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### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
82657-04-3	4.0 %	Bifenthrin
67-63-0		2-Propanol
872-50-4	6.0 %	N-Methylpyrrolidone
68476-86-8	<= 90.0 %	Petroleum gases, liquefied, sweetened
		Proprietary ingredients

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### 4. First-Aid Measures

**General advice:**

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm.

**If on skin:**

Rinse skin immediately with plenty of water for 15 - 20 minutes.

**If in eyes:**

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

**If swallowed:**

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

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### 5. Fire-Fighting Measures

Flash point: < -6.6 °C

Flame Projection: > 18" NFPA 30B  
flammability: Level 3 aerosol.

*Information on: 2-Propanol*

Autoignition: 425 °C

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Lower explosion limit: 1.8 %(V) (air)  
Upper explosion limit: 9.5 %(V) (air)

**Suitable extinguishing media:**

foam, dry extinguishing media, carbon dioxide, water spray

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### **Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, halogenated hydrocarbons, hydrocarbons

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure.

### **Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### **Further information:**

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

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## 6. Accidental release measures

### **Personal precautions:**

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### **Environmental precautions:**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is not regulated by CERCLA ('Superfund').

### **Cleanup:**

Dike spillage. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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## 7. Handling and Storage

### **Handling**

#### **General advice:**

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

#### **Protection against fire and explosion:**

Aerosol container contains flammable gas under pressure. The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

### **Storage**

#### **General advice:**

Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame.

#### **Storage incompatibility:**

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General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

### **Storage stability:**

May be kept indefinitely if stored properly. If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

### **Temperature tolerance**

Protect from temperatures above: 130 °F  
Explosive at or above indicated temperature.

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## 8. Exposure Controls and Personal Protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

### **Components with workplace control parameters**

2-Propanol	OSHA	PEL 400 ppm 980 mg/m3 ;
	ACGIH	TWA value 200 ppm ; STEL value 400 ppm ;

### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### **Personal protective equipment**

#### **RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### **General safety and hygiene measures:**

**RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS**  
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

Form:	aerosol
Odour:	characteristic, solvent-like

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Colour:	clear	
pH value:	approx. 9.9	( 10 g/l, approx. 25 °C)
Boiling range:		Information applies to the solvent.
<i>Information on: 2-Propanol</i>		
Boiling point:	82.4 °C	( 1,013 hPa)
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<i>Information on: 2-Propanol</i>		
Vapour pressure:	23.6 hPa	( 50 °C)
<i>Information on: Propane</i>		
Vapour pressure:	8500 hPa	( 20 °C) Literature data.
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Density:	0.843 g/cm <sup>3</sup>	(approx. 20 °C)
Viscosity, dynamic:	2.25 mPa.s	(approx. 25 °C)
Solubility in water:		slightly soluble

## 10. Stability and Reactivity

### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge.

### Substances to avoid:

strong oxidizing agents, strong acids, aldehydes, amines, chlorinated hydrocarbons

### Hazardous reactions:

The product is chemically stable.

### Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

### Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride  
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

### Corrosion to metals:

Corrosive effects to metal are not anticipated.

## 11. Toxicological information

### Acute toxicity

#### Oral:

Type of value: LD50  
Species: rat  
Value: > 1,300 mg/kg

#### Inhalation:

Type of value: LC50  
Species: rat  
Value: > 3.1 mg/l

#### Dermal:

Type of value: LD50  
Species: rabbit  
Value: > 5,000 mg/kg

### Irritation / corrosion:

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### Eye:

Species: rabbit  
Result: Slightly irritating.

### Sensitization:

Species: guinea pig  
Result: Caused skin sensitization in animal studies.

### Genetic toxicity

#### Information on: Bifenthrin

Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

#### Information on: 2-Propanol

In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.

#### Information on: N-Methylpyrrolidone

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

### Carcinogenicity

#### Information on: Bifenthrin

In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. In long term studies in mice in which the substance was given by feed, a carcinogenic effect was observed.

#### Information on: N-Methylpyrrolidone

Results from a number of long-term carcinogenicity studies and short-term tests are available. Taking into account all of the information, there is no indication that the substance itself is carcinogenic.

### Reproductive toxicity

#### Information on: Bifenthrin

The results of animal studies gave no indication of a fertility impairing effect.

#### Information on: N-Methylpyrrolidone

The results of animal studies gave no indication of a fertility impairing effect.

### Development:

#### Information on: Bifenthrin

Causes developmental effects in animals at high, maternally toxic doses.

#### Information on: 2-Propanol

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### Information on: N-Methylpyrrolidone

The substance caused malformations/developmental toxicity in laboratory animals.

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## 12. Ecological Information

### Fish

#### Information on: Bifenthrin

##### Acute:

*Oncorhynchus mykiss*/LC50 (96 h): 0.00015 mg/l

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*Information on: 2-Propanol*  
*Acute:*  
*EPA 72-1 Flow through.*  
*Pimephales promelas/LC50 (96 h): 9,640 mg/l*  
*Literature data.*

*Information on: N-Methylpyrrolidone*  
*Acute:*  
*static*  
*Salmo gairdneri, syn. O. mykiss/LC50 (96 h): > 500 mg/l*  
*The details of the toxic effect relate to the nominal concentration.*  
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### **Aquatic invertebrates**

*Information on: Bifenthrin*  
*Acute:*  
*Daphnia magna/LC50 (48 h): 0.00016 mg/l*

*Information on: 2-Propanol*  
*Acute:*  
*static*  
*Daphnia magna/EC50 (24 h): > 10,000 mg/l*  
*Nominal concentration. Literature data.*

*Information on: N-Methylpyrrolidone*  
*Acute:*  
*DIN 38412 Part 11 static*  
*Daphnia magna/EC50 (24 h): > 1,000 mg/l*  
*The details of the toxic effect relate to the nominal concentration.*  
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### **Aquatic plants**

*Information on: Bifenthrin*

*Information on: 2-Propanol*  
*Toxicity to aquatic plants:*  
*DIN 38412 Part 9 static*  
*green algae/Toxic limit concentration (8 d): 1,800 mg/l*  
*Nominal concentration. Literature data.*

*Information on: N-Methylpyrrolidone*  
*Toxicity to aquatic plants:*  
*DIN 38412 Part 9 green algae/EC50 (72 h): > 500 mg/l*  
*The details of the toxic effect relate to the nominal concentration.*  
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## **13. Disposal considerations**

### **Waste disposal of substance:**

Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **Container disposal:**

Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

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### 14. Transport Information

Reference Bill of Lading

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical	TSCA, US	blocked / not listed
Crop Protection	TSCA, US	released / exempt

**EPCRA 311/312 (Hazard categories):** Acute; Chronic; Fire; Sudden release of pressure

##### EPCRA 313:

##### CAS Number

872-50-4  
82657-04-3

##### Chemical name

N-Methylpyrrolidone  
Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]- 2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-

#### State regulations

##### State RTK

MA, NJ, PA  
MA, PA

##### CAS Number

67-63-0  
872-50-4

##### Chemical name

2-Propanol  
N-Methylpyrrolidone

##### CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

##### CAS Number

872-50-4

##### Chemical name

N-Methylpyrrolidone

### 16. Other Information

**Refer to product label for EPA registration number.**

Recommended use: insecticide

BASF supports worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

#### Local Contact Information



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Product Stewardship  
919 547-2000

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