

# Safety Data Sheet

## PERMA-DUST PRESSURIZED.

Revision date : 2011/07/19

Version: 1.3

Page: 1/8

(30501523/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: 000000397443  
Synonyms: Boric acid

### 2. Hazards Identification

Emergency overview

CAUTION:  
KEEP OUT OF REACH OF CHILDREN.  
KEEP OUT OF REACH OF DOMESTIC ANIMALS.  
HARMFUL IF ABSORBED THROUGH SKIN.  
Causes eye irritation.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.  
FLAMMABLE SOLID.  
Aerosol container contains flammable gas under pressure.

See Product Label for additional precautionary statements.

State of matter: solid  
Odour: mild, solvent-like

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:**

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

**Irritation / corrosion:**

Contact may result in eye irritation. May cause slight irritation to the skin.

# Safety Data Sheet

## PERMA-DUST PRESSURIZED.

Revision date : 2011/07/19  
Version: 1.3

Page: 2/8  
(30501523/SDS\_CPA\_US/EN)

### **Sensitization:**

Skin sensitizing effects were not observed in animal studies.

### **Signs and symptoms of overexposure:**

Vomiting may cause aspiration pneumonia due to the ingredients.

## 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
10043-35-3	35.5 %	boric acid
64742-47-8	> 10.0 %	Distillates (petroleum), hydrotreated light
811-97-2		HFC-134A
75-37-6	>= 50.0 %	Ethane, 1,1-difluoro- Proprietary ingredients

## 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.

### **Note to physician**

Treatment: The induction of vomit is not indicated (counterindicated) due to the aspiration risk and chemical pneumonia.

## 5. Fire-Fighting Measures

Flash point:		not determined
Lower explosion limit:	3.9 %(V)	(air)
Upper explosion limit:	16.9 %(V)	(air)
Flammability of Aerosol	> 18 in	(ASTM D 3065)
Products:		
NFPA 30B flammability:	Level 1 Aerosol	

### **Suitable extinguishing media:**

foam, dry powder, carbon dioxide

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

carbon monoxide, carbon dioxide, hydrogen fluoride, halogenated hydrocarbons, halogenated compounds

# Safety Data Sheet

## PERMA-DUST PRESSURIZED.

Revision date : 2011/07/19  
Version: 1.3

Page: 3/8  
(30501523/SDS\_CPA\_US/EN)

The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure. Risk of explosion at excessive temperatures.

**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. Sweep/shovel up. Avoid raising dust. Use wet cleaning methods when applicable. Place into suitable containers for reuse or disposal in a licensed facility. 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:**

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

**Storage stability:**

# Safety Data Sheet

## PERMA-DUST PRESSURIZED.

Revision date : 2011/07/19  
Version: 1.3

Page: 4/8  
(30501523/SDS\_CPA\_US/EN)

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.

## 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

boric acid	ACGIH	TWA value 2 mg/m <sup>3</sup> ; STEL value 6 mg/m <sup>3</sup> ; TWA value 2 mg/m <sup>3</sup> Inhalable fraction ; STEL value 6 mg/m <sup>3</sup> Inhalable fraction ;
Distillates (petroleum), hydrotreated light	ACGIH	TWA value 200 mg/m <sup>3</sup> Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. Skin Designation Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through the skin.

### 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.

# Safety Data Sheet

## PERMA-DUST PRESSURIZED.

Revision date : 2011/07/19  
Version: 1.3

Page: 5/8  
(30501523/SDS\_CPA\_US/EN)

### 9. Physical and Chemical Properties

Form:	aerosol, powder	
Odour:	mild, solvent-like	
pH value:	3.7	( 47 g/l, 20 °C) The data given are those of the active ingredient.
Vapour pressure:	approx. 4826 hPa	(approx. 21 °C) The product has not been tested. The statement has been derived from the properties of the individual components.
Bulk density:	0.963 g/cm <sup>3</sup>	(approx. 20 °C)
Vapour density:		not determined
Viscosity, dynamic:		No data available.
Solubility in water:	approx. 47 g/l	(approx. 20 °C)

### 10. Stability and Reactivity

#### Conditions to avoid:

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

#### Substances to avoid:

No substances known that should be avoided.

#### 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, hydrogen fluoride, halogenated hydrocarbons

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: > 5,000 mg/kg

##### Inhalation:

No data available.

##### Dermal:

Type of value: LD50

Species: rabbit

Value: > 2,000 mg/kg

#### Irritation / corrosion

# Safety Data Sheet

## PERMA-DUST PRESSURIZED.

Revision date : 2011/07/19  
Version: 1.3

Page: 6/8  
(30501523/SDS\_CPA\_US/EN)

### Skin:

Species: rabbit  
Result: Slightly irritating.  
Prolonged contact with the product can result in skin irritation.

### Eye:

Species: rabbit  
Result: Slightly irritating.  
May cause slight irritation to the eyes.

### Sensitization:

Species: guinea pig  
Result: Skin sensitizing effects were not observed in animal studies.

### Genetic toxicity

*Information on: Boric acid (H3BO3)*  
No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in a test with mammals.

*Information on: Distillates (petroleum), hydrotreated light*  
In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays. Literature data.

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### Reproductive toxicity

*Information on: Boric acid (H3BO3)*  
Causes impairment of fertility in laboratory animals. EU-classification See user defined text.

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### Development:

*Information on: Boric acid (H3BO3)*  
The substance caused malformations/developmental toxicity in laboratory animals. EU-classification See user defined text.

*Information on: Distillates (petroleum), hydrotreated light*  
No indications of a developmental toxic / teratogenic effect were seen in animal studies. Literature data.

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## 12. Ecological Information

### Fish

*Information on: Boric acid (H3BO3)*  
Acute:  
other Flow through.  
Carassius auratus/LC50 (72 h): 1,020 mg/l

*Information on: Distillates (petroleum), hydrotreated light*  
Acute:  
Brachydanio rerio/LC50 (96 h): 7.3 mg/l  
The product has not been tested. The statement has been derived from products of a similar structure or composition. Literature data.

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### Aquatic invertebrates

*Information on: Boric acid (H3BO3)*  
Acute:  
other static

# Safety Data Sheet

## PERMA-DUST PRESSURIZED.

Revision date : 2011/07/19  
Version: 1.3

Page: 7/8  
(30501523/SDS\_CPA\_US/EN)

*Daphnia magna/LC50 (48 h): 760 mg/l*  
*Nominal concentration.*

*Information on: Distillates (petroleum), hydrotreated light*  
*Acute:*

*Daphnia magna/EL50 (48 h): 1.4 - 21 mg/l*  
*The product has not been tested. The statement has been derived from products of a similar structure or composition. Literature data.*  
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### **Aquatic plants**

*Information on: Boric acid (H3BO3)*

*Toxicity to aquatic plants:*

*other static*

*green algae/EC50 (72 h): 194 mg/l*

*The product has not been tested. The statement has been derived from products of a similar structure or composition.*

*Information on: Distillates (petroleum), hydrotreated light*

*Toxicity to aquatic plants:*

*algae/EC50 (72 h): 3.7 - 8.3 mg/l*

*Literature data.*  
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## 13. Disposal considerations

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

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. 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

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## 15. Regulatory Information

### **Federal Regulations**

#### **Registration status:**

Chemical            TSCA, US    released / listed

Crop Protection    TSCA, US    released / exempt

**EPCRA 311/312 (Hazard categories):**

Acute; Chronic; Fire; Sudden release of pressure

### **State regulations**

# Safety Data Sheet

## PERMA-DUST PRESSURIZED.

Revision date : 2011/07/19

Page: 8/8

Version: 1.3

(30501523/SDS\_CPA\_US/EN)

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<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
MA, NJ, PA	64742-47-8	Distillates (petroleum), hydrotreated light
MA, NJ	75-37-6	Ethane, 1,1-difluoro-

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### 16. Other Information

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

Recommended use: insecticide

#### NFPA Hazard codes:

Health : 1      Fire: 2      Reactivity: 1      Special:

We support 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.

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#### MSDS Prepared by:

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MSDS Prepared on: 2011/07/19

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