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### 1. Identification

Product identifier used on the label

# PT CY-KICK PRESSURIZED INSECTICIDE

# Recommended use of the chemical and restriction on use

Recommended use\*: insecticide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

### Details of the supplier of the safety data sheet

Company: **BASF CORPORATION** 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

### **Emergency telephone number**

CHEMTREC: 1-800-424-9300 BASF HOTLINE: 1-800-832-HELP (4357)

### Other means of identification

Substance number:	397135
EPA Registration number:	499-470
Synonyms:	Cyfluthrin

### 2. Hazards Identification

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

### **Classification of the product**

Asp. Tox.	1	Aspiration hazard
Flam. Liq.	2	Flammable liquids
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic
Flam. Aerosol	1	Flammable aerosols

### Label elements

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Signal Word: Danger

Hazard Statement:	
H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Stateme	nts (Prevention):
P210	Keep away from heat, hot surfaces, sparks, open flames and other
-	ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.
P273	Avoid release to the environment.
P271	Use only outdoors or in a well-ventilated area.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P240	Ground/bond container and receiving equipment.
P264	Wash with plenty of water and soap thoroughly after handling.
Precautionary Stateme	nts (Response):
P312	Call a POISÓN CENTER or doctor/physician if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P391	Collect spillage.
P370 + P378	In case of fire: Use extinguishing powder, foam or CO2 for extinction.
P331	Do NOT induce vomiting.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Precautionary Stateme	nts (Storage):
P403 + P235	Store in a well-ventilated place. Keep cool.
P233	Keep container tightly closed.
P410 + P412	Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.
P405	Store locked up.
Precautionary Stateme	nts (Disposal):
P501	Dispose of contents/container to hazardous or special waste collection point.

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Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 1 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 3 - 4 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 3 - 4 % Inhalation - mist

### According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### **Emergency overview**

CAUTION: KEEP OUT OF REACH OF CHILDREN. KEEP OUT OF REACH OF DOMESTIC ANIMALS. HARMFUL IF ABSORBED THROUGH SKIN. Moderately irritating to the eyes. Prolonged contact may cause allergic skin reactions. Avoid contact with the skin, eyes and clothing. Wash thoroughly after handling. Flammable Liquid Aerosol container contains flammable gas under pressure.

### 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Weight %	Chemical name
68359-37-5	0.1 %	Cyfluthrin
64742-47-8	75.0 - 100.0%	Distillates, petroleum

### According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Weight %	Chemical name
68359-37-5	0.1 %	Cyfluthrin
64742-47-8	> 10.0%	Distillates, petroleum
124-38-9		carbon dioxide
	<= 89.9%	Proprietary ingredients

### 4. First-Aid Measures

#### **Description of first aid measures**

#### **General advice:**

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

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### If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

### If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known. Hazards: Vomiting may cause aspiration pneumonia due to the ingredients.

### Indication of any immediate medical attention and special treatment needed

Note to physician Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire-Fighting Measures

### **Extinguishing media**

Suitable extinguishing media: foam, dry powder, carbon dioxide

### Special hazards arising from the substance or mixture

Hazards during fire-fighting: carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, halogenated hydrocarbons, halogenated compounds, hydrocarbons 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.

### Advice for fire-fighters

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.

### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### **Environmental precautions**

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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').

### Methods and material for containment and cleaning up

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.

### 7. Handling and Storage

### Precautions for safe handling

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:

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.

### Conditions for safe storage, including any incompatibilities

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

Further information on storage conditions: Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame. Protect from temperatures above: 130 °F Explosive at or above indicated temperature.

## 8. Exposure Controls/Personal Protection

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

### **Components with occupational exposure limits**

dioxide	OSHA PEL	PEL 5,000 ppm 9,000 mg/m3 ; STEL value 30,000 ppm 54,000 mg/m3 ; TWA value 10,000
	ACGIH TLV	ppm 18,000 mg/m3; STEL value 30,000 ppm;TWA value 5,000 ppm;

Distillates, petroleum

carbon

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ACGIH TLV TWA value 200 mg/m3 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.

### 9. Physical and Chemical Properties

Form:	aerosol
Odour:	characteristic
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	clear

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	pH value:	approx. 8 - 10 ( 25 °C)		
	flow point:	approx50 °C Information applies to the solvent.		
	Boiling point:	approx. 193 - 245 °C Information applies to the solvent.		
	Flash point:	approx. 18.3 °C		
	Flammability:	Extremely flammable.		
	NFPA 30B flammability:	Level 3 Aerosol		
	Lower explosion limit:	As a result of our experience with this		
		product and our knowledge of its		
		composition we do not expect any		
		hazard as long as the product is used		
		appropriately and in accordance with		
		the intended use.		
	Upper explosion limit:	As a result of our experience with this		
		product and our knowledge of its		
		composition we do not expect any		
		hazard as long as the product is used appropriately and in accordance with		
		the intended use.		
	Autoignition:	approx. 220 - 250 °C		
		Information applies to the solvent.		
	Vapour pressure:	approx. 57258 hPa		
		(20 °C)		
		Information applies to the propellant.		
	Density:	approx. 0.79 g/cm3		
		( 20 °C)		
	Vapour density:	not applicable		
	Partitioning coefficient n-	not applicable		
	octanol/water (log Pow):			
	Thermal decomposition:	carbon monoxide, carbon dioxide, nitro		1
		oxide, Hydrogen chloride, hydrogen flu	oride, halogenated	
		hydrocarbons, Hydrocarbons	ist is bosted above	
		Stable at ambient temperature. If produce decomposition temperature toxic vapor		То
		avoid thermal decomposition, do not ov		10
	Viscosity, dynamic:	approx. 1.84 mPa.s	cificat.	
	Solubility in water:	dispersible		
	Evaporation rate:	not applicable		
	Other Information:	If necessary, information on other phys	ical and chemical	
		parameters is indicated in this section.		
		•		

# 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Corrosion to metals:

Corrosive effects to metal are not anticipated.

### Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

### **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

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### Possibility of hazardous reactions

The product is chemically stable.

### 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.

### Incompatible materials

strong acids, strong oxidizing agents, strong bases

### Hazardous decomposition products

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, halogenated hydrocarbons, Hydrocarbons

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

### **11. Toxicological information**

### Primary routes of exposure

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

### **Acute Toxicity/Effects**

### Acute toxicity

Assessment of acute toxicity: Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

<u>Oral</u> Type of value: LD50 Species: rat Value: > 5,000 mg/kg

Inhalation Type of value: LC50 Species: rat Value: > 6.53 mg/l An aerosol was tested. No mortality was observed.

Dermal Type of value: LD50 Species: rabbit Value: > 2,000 mg/kg No mortality was observed.

Assessment other acute effects

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#### Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

<u>Skin</u> Species: rabbit Result: non-irritant

<u>Eye</u> Species: rabbit Result: non-irritant

### **Sensitization**

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

modified Buehler test Species: guinea pig Result: Non-sensitizing.

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organtoxicity was observed after repeated administration to animals.

#### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

#### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### Information on: Distillates, petroleum

Assessment of carcinogenicity: Long-term exposure to highly irritating concentrations resulted in skin tumors in animals. A carcinogenic effect in humans can be excluded after brief skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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#### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### **Teratogenicity**

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

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<u>Other Information</u> Misuse can be harmful to health. Has a degreasing effect on skin.

### Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

### **12. Ecological Information**

### Toxicity

Aquatic toxicity Assessment of aquatic toxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. The product has not been tested. The statement has been derived from the properties of the individual components.

### Toxicity to fish

Information on: CYFLUTHRIN Tech 98% LC50 (96 h) 0.00047 mg/l, Oncorhynchus mykiss

### Information on: Distillates, petroleum

LL50 (96 h) 2 - 5 mg/l, Oncorhynchus mykiss (OECD Guideline 203, semistatic) The product has low solubility in the test medium. A saturated solution has been tested. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal values (confirmed by concentration control analytics)

### Aquatic invertebrates

Information on: CYFLUTHRIN Tech 98% EC50 (48 h) 0.00016 mg/l, Daphnia magna

### Information on: Distillates, petroleum

EL50 (48 h) 1.4 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. A saturated solution has been tested. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Aquatic plants

Information on: CYFLUTHRIN Tech 98% EC50 (96 h) > 10 mg/l, Scenedesmus subspicatus

### Information on: Distillates, petroleum

EL50 (72 h) 1 - 3 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static) The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. A saturated solution has been tested. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. No observed effect concentration (72 h) 1 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

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The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. A saturated solution has been tested. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Persistence and degradability

Assessment biodegradation and elimination (H2O)

Information on: CYFLUTHRIN Tech 98%

According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

### **Bioaccumulative potential**

<u>Assessment bioaccumulation potential</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment bioaccumulation potential

Information on: Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Accumulation in organisms is expected.

### Mobility in soil

<u>Assessment transport between environmental compartments</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: CYFLUTHRIN Tech 98%

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

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### Additional information

Other ecotoxicological advice: Do not discharge product into the environment without control.

### 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.

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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.

### **14. Transport Information**

# Land transport

00001	
Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1, EHSM
Proper shipping name:	AEROSOLS

#### Sea transport IMDG

2.1 UN 1950 2.1, EHSM YES
AEROSOLS

### Air transport

IATA/ICAO

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1
Proper shipping name:	AEROSOLS, FLAMMABLE

### **Further information**

DOT: This product may be classified as ORM-D (Consumer Commodity) or Limited Quantity. After 12/31/2020, ORM-D will not apply.

### **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; Fire; Sudden release of pressure

State regulations		
State RTK	CAS Number	Chemical name
PA	124-38-9	carbon dioxide
	64742-47-8	Distillates, petroleum
MA	124-38-9	carbon dioxide
	64742-47-8	Distillates, petroleum

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NJ	124-38-9 64742-47-8	carbon dioxide Distillates, petroleum	
NFPA Hazard codes:			

Health: 1 Fire: 4 Reactivity: 1 Special:

Labeling requirements under FIFRA

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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

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CAUTION: KEEP OUT OF REACH OF CHILDREN. KEEP OUT OF REACH OF DOMESTIC ANIMALS. HARMFUL IF ABSORBED THROUGH SKIN. May cause moderate but temporary irritation to the eyes. Prolonged or repeated skin contact may cause sensitization or allergic reactions. Avoid contact with the skin, eyes and clothing. Wash thoroughly after handling. Flammable Liquid Aerosol container contains flammable gas under pressure.

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2016/11/28

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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