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### 1. Identification

Product identifier used on the label

# **INSIGNIA SC INTRINSIC BRAND FUNGICIDE**

**Recommended use of the chemical and restriction on use** Recommended use\*: fungicide

\* The "Recommended use" identified for this product is provided solely to comply with a US 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:34224EPA Register number:7969-Molecular formula:C19 HChemical family:strobilSynonyms:pyract

342244 7969-290 C19 H18 CI N3 O4 strobilurine pyraclostrobin

# 2. Hazards Identification

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

#### **Classification of the product**

Acute Tox. Acute Tox. Acute Tox. Skin Corr./Irrit. STOT SE	4 (oral) 4 (Inhalation - mist) 2	Acute toxicity Acute toxicity Acute toxicity Skin corrosion/irritation Specific target organ toxicity — single exposure
STOT SE	3 (irritating to	Specific target organ toxicity — single exposure

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Aquatic Acute	respiratory system) 1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chror
Label elements		
Pictogram:		
Signal Word:		
Warning		
Hazard Statement:		
H315	Causes skin irritation.	
H332	Harmful if inhaled.	
H302	Harmful if swallowed.	
H335	May cause respiratory irri	tation.
Precautionary Stateme	ents (Prevention):	
P271	Use only outdoors or in a	well-ventilated area.
P280	Wear protective gloves.	
P260	Do not breathe dust/gas/r	nist/vapours.
P270	Do not eat, drink or smoke	e when using this product.
P264	Wash with plenty of water	and soap thoroughly after handling.
Precautionary Stateme	ents (Response):	
P312		or doctor/physician if you feel unwell.
P304 + P340		rson to fresh air and keep comfortable for
	breathing.	
P303 + P352		sh with plenty of soap and water.
P301 + P330	IF SWALLOWED: rinse m	
P332 + P313		et medical advice/attention.
P362 + P364	Take off contaminated clo	thing and wash before reuse.
Precautionary Stateme		
P403 + P233		place. Keep container tightly closed.
P405	Store locked up.	
Precautionary Stateme		
P501	Dispose of contents/conta	niner to hazardous or special waste collection

#### Hazards not otherwise classified

Labeling of special preparations (GHS): The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 7 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 10 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 10 % Inhalation - mist

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

#### **Emergency overview**

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WARNING: May be fatal if swallowed. May be harmful if absorbed through skin. May cause moderate but temporary irritation to the eyes. KEEP OUT OF REACH OF CHILDREN. KEEP OUT OF REACH OF DOMESTIC ANIMALS. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wash thoroughly after handling.

### 3. Composition / Information on Ingredients

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

CAS Number	Content (W/W)	Chemical name
175013-18-0	<= 23.0 %	Pyraclostrobin
77-78-1	< 0.2 %	dimethyl sulphate

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

CAS Number	Content (W/W)	Chemical name
175013-18-0	<= 23.0 %	Pyraclostrobin
	<= 76.0 %	Proprietary ingredients

# 4. First-Aid Measures

#### Description of 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.

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:

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

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

#### If on skin:

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

Wash thoroughly with soap and water.

#### 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.

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

#### 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.

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

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

<u>Note to physician</u> Antidote: Treatment:	No known specific antidote. Treat symptomatically.
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, water spray

### Special hazards arising from the substance or mixture

Hazards during fire-fighting: carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, 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.

#### 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

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.

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#### Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. 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.

### 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 for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. 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. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. 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. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. 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: Keep only in the original container in a cool, dry, wellventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

# 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

dimethyl sulphate	OSHA PEL	PEL 1 ppm 5 mg/m3 ; Skin Designation ; The substance can be absorbed through the skin.
	ACGIH TLV	TWA value 0.1 ppm;Skin Designation; The substance can be absorbed through the skin.

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#### 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:

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: Odour:	suspension odourless	
Odour threshold:		Not determined since harmful by inhalation.
Colour:	pure white	
pH value:	approx. 4.6 - 6.6	( 1 %(m), 25 °C)
Freezing point:	approx. 0 °C	Information applies to the solvent.
Boiling point:	approx. 100 °C	Information applies to the solvent.
Flash point:		(Regulation 440/2008/EC, A.9) No flash
		point - Measurement made up to the boiling point.

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Flammability:	Based on the	
, ,	structure or	
	composition	
	there is no	
	indication of	
	flammability	
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
opper explosion limit.		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:	540 °C	(Regulation 440/2008/EC, A.15)
Vapour pressure:	approx. 23.3 hPa	(20 °C) Information applies to the
		solvent.
Density:	approx. 1.07 g/cm3	( 20 °C)
	approx. 8.9296 Lb/USg	( 68 °F)
Vapour density:	-	not applicable
Partitioning coefficient n-		not applicable
octanol/water (log Pow):		
Thermal decomposition:	> 350 °C (DSC (DIN	
		mperature. If product is heated above
		perature toxic vapours may be released.
		(DSC (OECD 113)) Not a substance liable to self-
		ording to UN transport regulations, class 4.1.
Viscosity, dynamic:	approx. 1,514	(approx. 20 °C)
viceosity, aynamic.	Pa.s	
Solubility in water:		dispersible
Molar mass:	387.82 g/mol	
Evaporation rate:	-	not applicable
Other Information:		ation on other physical and chemical
	parameters is indica	

# 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: not fire-propagating

#### **Chemical stability**

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

### Possibility of hazardous reactions

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The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

### **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 oxidizing agents, strong bases, strong acids

#### Hazardous decomposition products

Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition: > 350 °C (DSC (DIN 51007)) Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. 200 °C, 3 K/min (DSC (OECD 113)) (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

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

<u>Oral</u>

Type of value: LD50 Species: rat (male/female) Value: approx. 455 mg/kg (OECD Guideline 423)

Inhalation Type of value: LC50 Species: rat (male/female) Value: 5.06 mg/l (OECD Guideline 403) Exposure time: 4 h An aerosol was tested.

<u>Dermal</u> Type of value: LD50 Species: rat (male/female) Value: > 5,000 mg/kg (OECD Guideline 402)

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<u>Assessment other acute effects</u> Assessment of STOT single: Causes temporary irritation of the respiratory tract.

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

#### Irritation / corrosion

Assessment of irritating effects: May cause moderate but temporary irritation to the eyes. May cause moderate irritation to the skin.

<u>Skin</u>

Species: rabbit Result: moderately irritating Method: OECD Guideline 404

<u>Eye</u> Species: rabbit Result: non-irritant Method: OECD Guideline 405

#### **Sensitization**

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. There is no evidence of a skin-sensitizing potential.

Buehler test Species: guinea pig Result: Skin sensitizing effects were not observed in animal studies. Method: OECD Guideline 406

#### **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.

#### Information on: pyraclostrobin

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

#### 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.

#### Information on: Pyraclostrobin

Assessment of mutagenicity: No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in a test with mammals.

#### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Information on: Pyraclostrobin

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

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.

Information on: Pyraclostrobin

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

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#### 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.

#### Information on: Pyraclostrobin

Assessment of teratogenicity: 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.

#### Symptoms of Exposure

### **12. Ecological Information**

#### Toxicity

Aquatic toxicity Assessment of aquatic toxicity: Very toxic (acute effect) to aquatic organisms.

Toxicity to fish

Information on: pyraclostrobin LC50 (96 h) > 0.0121 - < 0.0258 mg/l, Cyprinus carpio LC50 (96 h) > 0.0196 - < 0.0335 mg/l, Lepomis macrochirusLC50 (96 h) 0.00616 mg/l, Oncorhynchus mykiss

#### Aquatic invertebrates

Information on: pyraclostrobin EC50 (48 h) 0.0157 mg/l, Daphnia magna

#### Aquatic plants

Information on: pyraclostrobin

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EC50 (96 h) > 0.843 mg/l, Pseudokirchneriella subcapitata

<u>Assessment of terrestrial toxicity</u> With high probability not acutely harmful to terrestrial organisms.

#### Other terrestrial non-mammals

Information on: pyraclostrobin LD50 > 2,000 mg/kg, Colinus virginianus Colinus virginianus LC50, Anas platyrhynchos LD50 > 100 ug/bee, Apis mellifera

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Information on: pyraclostrobin

Not readily biodegradable (by OECD criteria).

#### **Bioaccumulative potential**

**Bioaccumulation potential** 

Information on: pyraclostrobin

Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD-Guideline 305) Accumulation in organisms is not to be expected.

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#### 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: pyraclostrobin

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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#### Additional information

Other ecotoxicological advice:

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

### 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,

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contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

#### RCRA:

This product is not regulated by RCRA.

### 14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

<b>Sea transport</b> IMDG	
Hazard class: Packing group: ID number: Hazard label: Marine pollutant: Proper shipping name:	9 III UN 3082 9, EHSM YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRACLOSTROBIN)
<b>Air transport</b> IATA/ICAO	
Hazard class: Packing group: ID number: Hazard label: Proper shipping name:	9 III UN 3082 9, EHSM ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRACLOSTROBIN)

### **15. Regulatory Information**

#### **Federal Regulations**

Registration status:<br/>Crop ProtectionTSCA, USreleased / exemptChemicalTSCA, USblocked / not listed

EPCRA 311/312 (Hazard categories): Acute;

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#### NFPA Hazard codes:

Health : 2 Fire: 1 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.

WARNING:

#### **16. Other Information**

#### SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2014/08/29

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.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK. END OF DATA SHEET