

Revision date : 2023/07/18 Version: 1.0 Page: 1/14 (30836975/SDS\_CPA\_US/EN)

# 1. Identification

Product identifier used on the label

# **Surtain Herbicide**

# Recommended use of the chemical and restriction on use

Recommended use\*: herbicide Unsuitable for use: Uses other than recommended

\* 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

<u>Company:</u> BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

# **Emergency telephone number**

24 Hour Emergency Response Information CHEMTREC: 1-800-424-9300 BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identificationSubstance number:1076212Registration number:EPA Registration number: 7969-501

# 2. Hazards Identification

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

# **Classification of the product**

| Repr.         | 2 (unborn child) | Reproductive toxicity                        |
|---------------|------------------|--|
| STOT RE       | 2                | Specific target organ toxicity — repeated    |
|               |                  | exposure                                     |
| Aquatic Acute | 1                | Hazardous to the aquatic environment - acute |
|               |                  |  |

Revision date: 2023/07/18 Version: 1.0

Page: 2/14 (30836975/SDS\_CPA\_US/EN)

| Aquatic Chronic               | 1   | Hazardous to the aquatic environment - chronic                            |
|-------------------------------|---|---|
| Label elements                |   |   |
| Pictogram:                    |   |   |
| Signal Word:<br>Warning       |   |   |
| Hazard Statement:             |   |   |
| H361                          | Suspected of damaging th                    | e unborn child.   |
| H373                          | May cause damage to org                     | ans (Kidney, Liver, Heart, Nervous system, rolonged or repeated exposure. |
| H400                          | Very toxic to aquatic life.                 |   |
| H410                          | Very toxic to aquatic life w                | ith long lasting effects.   |
| Precautionary Statem          | ents (Prevention):                          |   |
| P273                          | Avoid release to the enviro                 | onment  |
| P280                          |   | otective clothing and eye protection or face                              |
| P260                          | Do not breathe mist or vap                  | oour.   |
| P201                          | Obtain special instructions                 | before use.   |
| P202                          | Do not handle until all safe<br>understood. | ety precautions have been read and  |
| Precautionary Statem          | ents (Response):                            |   |
| P308 + P313                   | IF exposed or concerned:                    | Get medical attention.  |
| P391                          | Collect spillage.                           |   |
| Precautionary Statem          | ents (Storage):                             |   |
| P405                          | Store locked up.                            |   |
|                               |   |   |
| Precautionary Stateme<br>P501 |   | iner in accordance with local regulations.                                |
| FJUT                          | Dispose of contents/conta                   |   |
|                               |   |   |

# Hazards not otherwise classified

Labeling of special preparations (GHS): Product contains the following components and may cause an allergic skin reaction: The substance may cause sensitization of the skin in particularly sensitive individuals. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. Aromatic Compound, Proprietary preservative

# 3. Composition / Information on Ingredients

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

Saflufenacil

CAS Number: 372137-35-4 Content (W/W): 6.82 % Synonym: Saflufenacil

Revision date: 2023/07/18 Version: 1.0

Pyroxasulfone

CAS Number: 447399-55-5 Content (W/W): 10.91 % Synonym: No data available.

Ammonium compound CAS Number: Trade Secret Content (W/W): >= 0.3 - < 1.0% Synonym: No data available.

Proprietary Amine CAS Number: Trade Secret Content (W/W): >= 0.3 - < 1.0% Synonym: No data available.

Organosulphate, metal salt CAS Number: Trade Secret Content (W/W): >= 0.1 - < 0.2% Synonym: No data available.

Proprietary Diol CAS Number: Trade Secret Content (W/W): > 0.0 - < 0.1% Synonym: No data available.

Aromatic Compound CAS Number: Trade Secret Content (W/W): < 0.05% Synonym: No data available.

Proprietary preservative CAS Number: Trade Secret Content (W/W): > 0.0 - < 0.0015% Synonym: No data available.

The specific chemical identity and/or percentage of composition is being withheld as a trade secret.

# 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. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

# If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

# If on skin:

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

Revision date: 2023/07/18 Version: 1.0

### 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:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

| Note to physician |   |
|-------------------|---|
| Antidote:         | No known specific antidote.   |
| Treatment:        | Treat according to symptoms (decontamination, vital functions), no known specific antidote. |

# 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting: carbon monoxide, carbon dioxide, Hydrogen chloride, hydrogen bromide, hydrogen fluoride, nitrogen oxides, halogenated compounds, sulfur oxides, silica compounds The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

#### **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**

Revision date: 2023/07/18 Version: 1.0

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

#### 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

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

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.

# 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

| Saflufenacil  | TWA value 0.824 mg/m3; |
|---------------|------------------------|
| Pyroxasulfone | TWA value 0.138 mg/m3; |

#### 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) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. 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

Revision date: 2023/07/18 Version: 1.0

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. Wear face shield or tightly fitting safety goggles (chemical goggles) 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). Remove 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:                  | liquid   |
|------------------------|--|
| Odour:                 | faint, woody   |
| Odour threshold:       | Not determined due to potential health hazard by inhalation. |
| Colour:                | light brown  |
| pH value:              | approx. 5 - 7  |
|                        | ( 20 °C)   |
| Melting point:         | The product has not been tested.                             |
| Boiling point:         | The product has not been tested.                             |
| Flash point:           | Non-flammable.   |
| Flammability:          | not applicable   |
| 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:          | Based on the water content the                               |
|                        | product does not ignite.                                     |
| Vapour pressure:       | approx. 23.4 hPa   |
|                        | ( 20 °C)   |
|                        | Information applies to the solvent.                          |
|                        |  |

Revision date: 2023/07/18 Version: 1.0

| Density:<br>Vapour density:<br>Partitioning coefficient n-<br>octanol/water (log Pow):<br>Information on: Pyroxasulfor | approx. 1.1 g/cm3<br>( 20 °C)<br>not applicable<br>The statements are based on the<br>properties of the individual<br>components.  |
|--|--|
| Partitioning coefficient n-<br>octanol/water (log Pow):<br>Information on: saflufenacil<br>Partitioning coefficient n- | 2.39<br>( 25 °C)<br>2.6  |
| octanol/water (log Pow):   | ( 20 °C)   |
| Thermal decomposition:   | <ul> <li>110 °C, 20 kJ/kg</li> <li>(onset temperature)</li> <li>210 °C, 90 kJ/kg</li> <li>(onset temperature)</li> <li>270 °C, 300 kJ/kg</li> <li>(onset temperature)</li> <li>Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.</li> </ul> |
| Viscosity, dynamic:  | approx. 91 mPa.s<br>( 20 °C)   |
| Solubility in water:<br>Evaporation rate:<br>Other Information:  | dispersible<br>not applicable<br>If necessary, information on other physical and chemical<br>parameters is indicated in this section.  |

# **10. Stability and Reactivity**

#### Reactivity

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

Oxidizing properties: Not an oxidizer.

#### Chemical stability

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

# Possibility of hazardous reactions

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

### **Conditions to avoid**

See SDS section 7 - Handling and storage.

#### Incompatible materials

strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

Revision date: 2023/07/18 Version: 1.0

110 °C (onset temperature) 210 °C (onset temperature) 270 °C (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**

<u>Acute toxicity</u> Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

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

Inhalation Type of value: LC50 Species: rat Value: > 1.812 mg/l No mortality was observed.

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

<u>Assessment other acute effects</u> 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 eyes and skin.

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

<u>Eye</u>

Revision date: 2023/07/18 Version: 1.0

Species: rabbit Result: non-irritant

**Sensitization** 

Assessment of sensitization: No sensitizing effect.

The substance may cause sensitization of the skin in particularly sensitive individuals. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Mouse Local Lymph Node Assay (LLNA) Species: mouse Result: Non-sensitizing.

Aspiration Hazard not applicable

# **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: Proprietary Diol Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.

Information on: Ammonium compound Assessment of repeated dose toxicity: After repeated administration the prominent effect is the induction of corrosion.

Information on: saflufenacil Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects.

Information on: Pyroxasulfone

Assessment of repeated dose toxicity: Repeated oral exposure to small quantities may affect certain organs.

#### Genetic toxicity

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

#### Information on: Proprietary Diol

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was mutagenic in various cell culture test systems; however, these results could not be confirmed in tests with mammals.

\_\_\_\_\_

#### Carcinogenicity

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

Information on: Pyroxasulfone

Revision date: 2023/07/18 Version: 1.0

Assessment of carcinogenicity: When given in high doses, the substance was carcinogenic in animal studies. Based on its mechanism of action, a carcinogenic potential is not expected after exposure to low doses.

-----

### 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.

#### Information on: saflufenacil

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

-----

<u>Other Information</u> Misuse can be harmful to health.

# **12. Ecological Information**

# Toxicity

Aquatic toxicity Assessment of aquatic toxicity: Very 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: Pyroxasulfone LC50 (96 h) > 2.2 mg/l, Oncorhynchus mykiss

Information on: saflufenacil LC50 (96 h) > 96.8 mg/l, Pimephales promelas (OECD Guideline 203, static)

#### Aquatic invertebrates

Information on: Pyroxasulfone EC50 (48 h) > 4.4 mg/l, daphnia

Information on: saflufenacil EC50 (96 h) 8.0 mg/l, Daphnia magna (static)

#### Aquatic plants

Information on: Pyroxasulfone EC50 (7 d) 0.0055 mg/l, algae

Revision date: 2023/07/18 Version: 1.0

#### EC50 (72 h) 0.000743 mg/l, algae

Information on: saflufenacil EC50 (96 h) 0.113 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

#### Chronic toxicity to fish

Information on: Pyroxasulfone No observed effect concentration (28 d) 2.0 mg/l, Pimephales promelas

Information on: saflufenacil No observed effect concentration (33 d) >= 10 mg/l, Pimephales promelas

#### Chronic toxicity to aquatic invertebrates

Information on: Pyroxasulfone No observed effect concentration (21 d) 1.9 mg/l, Daphnia sp.

Information on: saflufenacil No observed effect concentration (21 d) 2.5 mg/l, Daphnia magna

### Persistence and degradability

<u>Assessment biodegradation and elimination (H2O)</u> The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment biodegradation and elimination (H2O)

Information on: Pyroxasulfone

Not readily biodegradable (by OECD criteria).

Information on: saflufenacil

-----

Not readily biodegradable (by OECD criteria).

### **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: Pyroxasulfone

Information on: saflufenacil

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

-----

Revision date: 2023/07/18 Version: 1.0

# 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: saflufenacil

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

### 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. 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:**

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.

# 14. Transport Information

| Land transport<br>USDOT   | Not classified as a dangerous good under transport regulations   |
|---|--|
| Sea transport<br>IMDG<br>Hazard class:<br>Packing group:<br>ID number:<br>Hazard label:<br>Marine pollutant:<br>Proper shipping name: | 9<br>III<br>UN 3082<br>9, EHSM<br>YES<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (contains PYROXASULFONE, SAFLUFENACIL) |
| Air transport<br>IATA/ICAO<br>Hazard class:<br>Packing group:<br>ID number:<br>Hazard label:<br>Proper shipping name:                 | 9<br>III<br>UN 3082<br>9, EHSM<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,   |

Revision date: 2023/07/18 Version: 1.0

N.O.S. (contains PYROXASULFONE, SAFLUFENACIL)

### Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

# **15. Regulatory Information**

### Federal Regulations

Registration status: Crop Protection TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

| CERCLA RQ | CAS Number | Chemical name |
|-----------|------------|---------------|
| 100 LBS   | 50-00-0    | Formaldehyde  |

# State regulations

| State RTK | CAS Number   | Chemical name         |
|-----------|--------------|-----------------------|
| NJ        | Trade Secret | Proprietary Solvent   |
|           | Trade Secret | Organic ammonium salt |
| PA        | Trade Secret | Proprietary Solvent   |
|           | Trade Secret | Organic ammonium salt |
|           | 50-00-0      | Formaldehyde          |

#### Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

#### Labeling requirements under FIFRA

This chemical is a pesticide product regulated 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. CAUTION:

KEEP OUT OF REACH OF CHILDREN. Hazards to humans and domestic animals. HARMFUL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF INHALED.

Revision date: 2023/07/18 Version: 1.0

Causes moderate eye irritation. Avoid contact with the skin, eyes and clothing. Avoid inhalation of mists/vapours. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse. Wear protective eyeware (goggles or face shield).

# **16. Other Information**

**SDS Prepared by:** BASF NA Product Regulations SDS Prepared on: 2023/07/18

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