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#### 1. Identification

Product identifier used on the label

### **POAST® HERBICIDE**

# Recommended use of the chemical and restriction on use

Recommended use\*: herbicide

\* 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: EPA Registration number: Molecular formula: Chemical family: Synonyms:

197605 7969-58 C17 H29 O3 N S heterocyclic, ketone, derivative sethoxydim

#### 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.	4	Flammable liquids
Acute Tox.	4 (Inhalation - mist)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Carc.	2	Carcinogenicity

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STOT SE	3 (Vapours may cause drowsiness and dizziness.)	Specific target organ toxicity — single exposu
Aquatic Acute Aquatic Chronic	1 , 1	Hazardous to the aquatic environment - acute Hazardous to the aquatic environment - chror
Label elements		
Pictogram:		
Signal Word: Danger		
Hazard Statement:		
H227	Combustible liquid.	
H319	Causes serious eye irritation	η.
H332	Harmful if inhaled.	
H304	Marmful if innaled. May be fatal if swallowed and enters airways.	
H336		
	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
H401	Toxic to aquatic life.	
H411	Toxic to aquatic life with lon	g lasting effects.
Precautionary Stateme		
P280	Wear protective gloves/prot protection.	ective clothing/eye protection/face
P201	Obtain special instructions I	pefore use.
P273	Avoid release to the enviror	iment.
P271	Use only outdoors or in a w	ell-ventilated area.
P210		urfaces, sparks, open flames and other
P202	Do not handle until all safety precautions have been read and understood.	
P260	Do not breathe dust/gas/mis	st/vapours.
Precautionary Stateme	nts (Response):	
P305 + P351 + P338		ly with water for several minutes. Remove nd easy to do. Continue rinsing.
P310		CENTER or doctor/physician.
P301 + P310		tely call a POISON CENTER or
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P391	Collect spillage.	
P331	Do NOT induce vomiting.	
P370 + P378		oray, dry powder, foam or carbon dioxide for
Precautionary Stateme		
P233	Keep container tightly close	d.
BIAA BAAF		
P403 + P235	Store in a well-ventilated pla	ace. Keep cool.

Precautionary Statements (Disposal):

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P501	Dispose of contents/container to hazardous or special waste collection point.

#### 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: 64 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 64 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 64 % Inhalation - mist

#### 3. Composition / Information on Ingredients

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

CAS Number	Weight %	Chemical name
74051-80-2	18.0 %	Sethoxydim
127087-87-0	3.0 - 10.0%	Nonylphenol ethoxylated
64742-94-5	50.0 - 75.0%	Solvent naphtha

#### 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. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

#### If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

#### If in eyes:

Immediately 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: Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision.

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#### 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, water spray

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

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, Sulphur dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons, If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a 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.

#### 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

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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. Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

#### 8. Exposure Controls/Personal Protection

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

#### 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 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.

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#### 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: Odour threshold: Colour: pH value:	liquid aromatic Not determined since harmful by inhalation. yellow approx. 3 - 5 ( 1 %(m), 25 °C)
Freezing point:	approx20 °C Information applies to the solvent.
Boiling point:	approx. 178 - 209 °C Information applies to the solvent.
Flash point: Flammability:	145 °F not highly flammable
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:	449 - 510 °C Information applies to the solvent.
Vapour pressure:	approx. 1 hPa ( 20 °C)
Density:	Information applies to the solvent. approx. 0.93 g/cm3 ( 20 °C) 7.7696 Lb/USg ( 68 °F)
Vapour density: Partitioning coefficient n- octanol/water (log Pow):	not applicable not applicable

Revision date : 2017/06/30 Page: 7/13 Version: 4.0 (30278610/SDS CPA US/EN) carbon monoxide, carbon dioxide, Sulphur dioxide, nitrogen Thermal decomposition: dioxide, nitrogen oxide, Hydrocarbons Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. Viscosity, dynamic: approx. 2.80 mPa.s ( 20 °C) emulsifiable Solubility in water: Molar mass: 327.5 g/mol Evaporation rate: not applicable Other Information: If necessary, information on other physical 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: Not an oxidizer.

#### **Chemical stability**

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

#### Possibility of hazardous reactions

The product is chemically stable. Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

#### **Conditions to avoid**

#### Incompatible materials

oxidizing agents

#### Hazardous decomposition products

Decomposition products:

Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, Sulphur dioxide, nitrogen dioxide, nitrogen oxide, Hydrocarbons Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.

#### 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**

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#### Acute toxicity

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

#### Oral

Type of value: LD50 Species: rat (male) Value: 5,000 mg/kg

Type of value: LD50 Species: rat (female) Value: 4,285.8 mg/kg

Inhalation Type of value: LC50 Species: rat Value: > 7.6 mg/l Exposure time: 4 h

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

Type of value: LD50 Species: rat Value: > 4,000 mg/kg

<u>Assessment other acute effects</u> Assessment of STOT single: Possible narcotic effects (drowsiness or dizziness).

<u>Irritation / corrosion</u> Assessment of irritating effects: May cause moderate irritation to the skin. Causes substantial but temporary eye injury.

<u>Skin</u> Species: rabbit Result: Irritating.

<u>Eye</u> Species: rabbit Result: Irritating.

<u>Sensitization</u> Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

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

#### **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.

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#### 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: solvent naphtha

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.

Information on: sethoxydim

Assessment of teratogenicity: Causes developmental effects in animals at high, maternally toxic doses.

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Other Information Misuse can be harmful to health.

#### 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.

<u>Medical conditions aggravated by overexposure</u> Existing dermatitis may be aggravated by exposure.

#### **12. Ecological Information**

#### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to fish. Acutely harmful for aquatic invertebrates. Very toxic (acute effect) to aquatic plants.

Toxicity to fish LC50 (96 h) 43 - 63 mg/l, Oncorhynchus mykiss

LC50 (96 h) 19.375 mg/l, Cyprinodon variegatus

Aquatic invertebrates

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EC50 (48 h) 18.5 mg/l, Daphnia magna

EC50 (96 h) 4.429 mg/l, Mysidopsis bahia

Toxicity to fish

Information on: sethoxydim LC50 (96 h) > 145.8 mg/l, Cyprinodon variegatus \_\_\_\_\_

#### Aquatic invertebrates

Information on: sethoxydim EC50 (48 h) 73.1 mg/l, Daphnia magna

Aquatic plants

Information on: sethoxydim EC50 (14 h) > 0.281 mg/l, Lemna gibba (static) No observed effect concentration (14 h) > 0.281 mg/l, Lemna gibba (static) \_\_\_\_\_

Assessment of terrestrial toxicity With high probability not acutely harmful to terrestrial organisms. Acutely toxic to honeybees.

Other terrestrial non-mammals

Information on: sethoxydim LD50 > 10 ug/bee, Apis mellifera LC50, Anas platyrhynchos \_\_\_\_\_

#### Persistence and degradability

**Elimination information** 

Not readily biodegradable (by OECD criteria).

#### **Bioaccumulative potential**

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

Assessment bioaccumulation potential

Information on: sethoxydim -----

#### Mobility in soil

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

Information on: sethoxydim

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

#### **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, 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. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

#### RCRA:

This product is not regulated by RCRA.

#### 14. Transport Information

Land transport USDOT	Classified as combustible liquid in containers greater than 119 gallons.
<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 SOLVENT NAPHTHA)
<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 SOLVENT NAPHTHA)

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#### **Further information**

DOT: Combustible liquid, only regulated in receptacles exceeding 119 gallons; not shipped as dangerous goods in receptacles less than 120 gallons.

#### **15. Regulatory Information**

#### **Federal Regulations**

**Registration status:** Crop Protection TSCA, US released / exempt

Chemical TSCA, US blocked / not listed

#### EPCRA 311/312 (Hazard categories): Acute; Chronic; Fire

EPCRA 313:	
CAS Number	Chemical name
74051-80-2	Sethoxydim
64742-94-5	Solvent naphtha
64742-94-5	Solvent naphtha
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CERCLA RQCAS NumberChemical name100 LBS64742-94-5Solvent naphtha

#### State regulations

State RTK	CAS Number	Chemical name
NJ	64742-94-5	solvent naphtha
	74051-80-2	Sethoxydim
PA	64742-94-5	solvent naphtha
NFPA Hazard codes:		

Health : 1 Fire: 2 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: Causes substantial but temporary eye injury. HARMFUL IF SWALLOWED. KEEP OUT OF REACH OF CHILDREN. KEEP OUT OF REACH OF DOMESTIC ANIMALS. Avoid contact with the skin, eyes and clothing.

#### 16. Other Information

**SDS Prepared by:** BASF NA Product Regulations

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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.

POAST® HERBICIDE is a registered trademark of BASF Corporation or BASF SE 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