



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA

Revision date 26-Nov-2023

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Revision Number 5.1

## 1. Identification

### Product identifier

Product Name LINDOL

### Other means of identification

Product Code(s) 7034

UN/ID no UN3082

Chemical name Tricresyl phosphate and Trixylenyl phosphate mixture

### Recommended use of the chemical and restrictions on use

Recommended use Flame-retardant plasticizer

Restrictions on use No information available

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

#### Supplier Address

ICL  
622 Emerson Road - Suite 500  
St. Louis, Missouri 63141, USA  
Tel:(314)983-7884  
e-mail:msdsinfo@icl-group.com

### Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### **Danger**

#### Hazard statements

May damage fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure  
Very toxic to aquatic life with long lasting effects



**Appearance** Clear, colourless to slightly brownish liquid

**Physical state** Liquid

**Odor** Slight

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood

Wear protective gloves/clothing and eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other information**

May be harmful if swallowed

May be harmful in contact with skin

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

Chemical name	CAS No.	Weight-%	Trade secret
Tricresyl phosphate (mixed isomers)	1330-78-5	80-100	Sk*
Trixylyl phosphate	25155-23-1	0-20	Sk*
Tri-ortho-cresyl phosphate	78-30-8	<0.1	Sk*
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P)	78-32-0	2-12	Sk*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

**Description of first aid measures**

**General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact**

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion**

Rinse mouth  
Get medical attention if symptoms occur  
NOTE: Never give an unconscious person anything to drink

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

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically and supportively.

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the chemical** May emit toxic and irritating fumes under fire conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with water spray. Contain runoff to prevent entry into water or drainage systems.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Store locked up. Store in a dry, well-ventilated area. Maximum recommended storage temperature of 65°C (149°F). Store above 4.4°C (40° F) for improved pumping rates. Temperatures between 27 - 37.8°C (80 - 100°F) provide good flow rates.

## 8. Exposure controls/personal protection

**Control parameters****Exposure Limits**

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Tricresyl phosphate (mixed isomers) 1330-78-5	-	-	-
Trixylyl phosphate 25155-23-1	-	-	-
Tri-ortho-cresyl phosphate 78-30-8	TWA: 0.02 mg/m <sup>3</sup> inhalable fraction and vapor S*	TWA: 0.1 mg/m <sup>3</sup> (vacated) TWA: 0.1 mg/m <sup>3</sup> (vacated) S*	IDLH: 40 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) 78-32-0	-	-	-

Chemical name	ACGIH
Tri-ortho-cresyl phosphate 78-30-8	70 % of baseline - red blood cells (Acetylcholinesterase activity) - end of shift

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Chemical safety goggles.

**Hand protection**

Wear suitable gloves

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear, colourless to slightly brownish liquid
<b>Color</b>	No information available
<b>Odor</b>	Slight

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	None known
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	260 °C / 500 °F	
<b>Flash point</b>	240 °C / 464 °F	
<b>Evaporation rate</b>	No data available	None known
<b>Flammability</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	0.1 mmHg (155°C)	
<b>Relative vapor density</b>	No data available	None known
<b>Relative density</b>	1.162 g/mL (25°C)	
<b>Water solubility</b>	0.2 g/100ml at 25°C	
<b>Solubility(ies)</b>	Soluble in common solvents	
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	Not self-ignitable
<b>Decomposition temperature</b>		None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	34 cps (37.8°C)	
<b><u>Other information</u></b>		
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	
<b>Softening point</b>	No information available	
<b>Molecular weight</b>	No information available	
<b>VOC content</b>	No information available	
<b>Liquid Density</b>	No information available	
<b>Bulk density</b>	No information available	

## 10. Stability and reactivity

<b>Reactivity</b>	It hydrolyzes slowly at normal temperatures in acidic or alkaline aqueous solutions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Prolonged storage at elevated temperatures.
<b>Incompatible materials</b>	Strong oxidising agent. Strong acids. Strong bases.
<b>Hazardous decomposition products</b>	Carbon dioxide and carbon monoxide. Phosphorus oxides.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,241.60 mg/kg  
ATEmix (dermal) 4,674.10 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tricresyl phosphate (mixed isomers) 1330-78-5	15,750 mg/kg (Rat)	3700 mg/kg (Rabbit)	>11.1 mg/L air (Rat)
Trixylyl phosphate 25155-23-1	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Tri-ortho-cresyl phosphate 78-30-8	= 1160 mg/kg (Rat)	-	-
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) 78-32-0	> 12.8 mg/kg (Rat)	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Not irritant.

**Serious eye damage/eye irritation** Not irritant.

**Respiratory or skin sensitization** Not a skin sensitizer

**Germ cell mutagenicity** Not clastogenic in chromosome aberration test with Chinese hamster cells.  
Negative in sister chromatid exchange assay in mammalian cells (read across to structural analogue Tricresyl phosphate, CAS 1330-78-5)  
Not mutagenic in AMES Test

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	OSHA
Tricresyl phosphate (mixed isomers) 1330-78-5	-	-	-	-
Trixylyl phosphate 25155-23-1	-	-	-	-
Tri-ortho-cresyl phosphate 78-30-8	-	-	-	-
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) 78-32-0	-	-	-	-

<b>Reproductive toxicity</b>	Classification based on data available for ingredients. May damage fertility. (Specific effect: Testicular effects - Sperm concentration, motility).
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure (adrenals, testes, epididymides, ovaries,liver (rat females only))
<b>Aspiration hazard</b>	Not expected.
<b>Other adverse effects</b>	No information available.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Tricresyl phosphate (mixed isomers) 1330-78-5	>2500 µg/L ,96h	0.6 mg/L 96h NOEC: 0.01 mg/L (fish, 28 days)	-	146 µg/L 48h
Trixylyl phosphate 25155-23-1	EC50: > 1011 ug/l (96 hr)	LC50: >1119 µg/l (96h, Fathead minnow) > 100 mg/L (96h, Rainbow trout)	-	EC50: 60 µg/L (48h,Daphnia magna) NOEC: 0.033 mg/L
Tri-ortho-cresyl phosphate 78-30-8	-	-	-	-
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P- P-P) 78-32-0	-	-	-	-

**Persistence and degradability** Tricresyl phosphate displays a low ready biodegradability. Tricresyl phosphate is expected to hydrolyse slowly under normal environmental conditions. Therefore, abiotic processes would contribute significantly to the depletion of the substance within the environment. As such, the substance does not fulfil the requirements of Annex XIII, Para 1.1 and cannot be considered a "P" and "vP" .

**Bioaccumulation** Not bioaccumulative. BCF=669. The calculated bioconcentration factor (BCF) is lower than 2000. As such, the substance does not fulfil the requirement of Annex XIII, Para 1.2 and cannot be considered to be "B" or "vB".

### Component Information

Chemical name	Partition coefficient
Tricresyl phosphate (mixed isomers) 1330-78-5	5.93
Trixylyl phosphate 25155-23-1	6.3
Tri-ortho-cresyl phosphate 78-30-8	-

TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) 78-32-0	-
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**Mobility in soil** The adsorption/desorption of the substance has been demonstrated to be high (log K<sub>oc</sub> >5).

**Other adverse effects** No information available

### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Dispose of in a safe manner in accordance with local/national regulations.

### 14. Transport information

#### DOT

**UN/ID no** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate)  
**Transport hazard class(es)** 9  
**Packing group** III  
**Special Provisions** 8, 146, 173, 335, IB3, T4, TP1, TP29  
**DOT Marine Pollutant** Np  
**Description:** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate) , 9, III, Marine pollutant  
**Emergency Response Guide Number** 171

#### TDG

**UN/ID no** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate)  
**Transport hazard class(es)** 9  
**Packing group** III  
**Special Provisions** 16, 99  
**Marine pollutant name** (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate).  
**Description:** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate) 9, III

#### MEX

**UN/ID no** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate)  
**Transport hazard class(es)** 9  
**Packing group** III  
**MEX Technical Name** (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate)  
**Description:** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate) , 9, III  
**Special Provisions** 274, 331, 335

#### IATA

**UN number or ID number** UN3082  
**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate)



<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>IATA Technical Name</b>	(Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate)
<b>Description:</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate) , 9, III
<b>Special Provisions</b>	A97, A158, A197

**IMDG**

<b>UN number or ID number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate)
<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>EmS-No</b>	F-A, S-F
<b>Special Provisions</b>	274, 335, 969
<b>Marine Pollutant</b>	(Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate)
<b>Description:</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Tricresyl phosphate (less than 1% ortho isomer), trixylenyl phosphate) , 9, III, Marine pollutant

## 15. Regulatory information

**International Inventories**

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory. Products that are used as food additives are exempt from listing in international chemical inventories.

For further details on the regulatory status for this product in a specific country, please send your inquiry to the following email address: [msdsinfo@icl-group.com](mailto:msdsinfo@icl-group.com)

Chemical name	TSCA Inventory List Active/Inactive
Tricresyl phosphate (mixed isomers) 1330-78-5 ( 80-100 )	Present (ACTIVE)
Trixylyl phosphate 25155-23-1 ( 0-20 )	Present (ACTIVE)
Tri-ortho-cresyl phosphate 78-30-8 ( <0.1 )	Present (ACTIVE)
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) 78-32-0 ( 2-12 )	Present (ACTIVE)

<b>TSCA</b>	Listed or exempted
<b>DSL</b>	Listed or exempted
<b>ENCS</b>	Listed or exempted
<b>IECSC</b>	Listed or exempted
<b>KECI</b>	Listed or exempted
<b>PICCS</b>	Not Listed
<b>AIIC</b>	Listed or exempted
<b>NZIoC</b>	Not Listed
<b>TCSI</b>	Listed or exempted
<b>NCI</b>	Listed or exempted
<b>TECI</b>	Not Listed
<b>NSQ</b>	Not Listed

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory  
**NCI** - Vietnam National Chemicals Inventory  
**TECI** - Thailand Inventory FDA Existing Chemicals  
**NSQ** - Mexico National Inventory of Chemical Substances

### US Federal Regulations

Chemical name	U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)
Tricresyl phosphate (mixed isomers) - 1330-78-5	-
Trixylyl phosphate - 25155-23-1	-
Tri-ortho-cresyl phosphate - 78-30-8	-
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) - 78-32-0	-

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Tricresyl phosphate (mixed isomers) - 1330-78-5	-
Trixylyl phosphate - 25155-23-1	1.0
Tri-ortho-cresyl phosphate - 78-30-8	-
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) - 78-32-0	-

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Tricresyl phosphate (mixed isomers) 1330-78-5	-	-	-	-
Trixylyl phosphate 25155-23-1	-	-	-	-
Tri-ortho-cresyl phosphate 78-30-8	-	-	-	-
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) 78-32-0	-	-	-	-

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous	Reportable Quantity (RQ)
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		Substances RQs	
Tricresyl phosphate (mixed isomers) 1330-78-5	-	-	
Trixylyl phosphate 25155-23-1	-	-	
Tri-ortho-cresyl phosphate 78-30-8	-	-	
TRICRESYL PHOSPHATE (M-M-M,M-M-P,M-P-P,P-P-P) 78-32-0	-	-	

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. Other information

<b>NFPA</b>	<b>Health hazards</b> 1	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Special hazards</b> -
<b>HMIS</b>	<b>Health hazards</b> 1*	<b>Flammability</b> 1	<b>Physical hazards</b> 0	<b>Personal protection</b> X
<i>Chronic Hazard Star Legend</i>	<i>* = Chronic Health Hazard</i>			

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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26-Nov-2023

**Revision date****Revision Note**

The symbol (\*\*\*) in the margin of this SDS indicates that this line has been revised.

**Disclaimer**

**Although the information and recommendations set forth herein (hereinafter 'information') are presented in good faith and believed to be correct as of the date hereof, we make no representations as to the completeness or accuracy thereof. Information is supplied to you upon the condition that the persons receiving the information will make their own determination as to its safety and suitability for their purposes prior to use. In no event will we be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information. In addition, we shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.**

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**End of Safety Data Sheet**