



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and  
Regulation (EC) No. 1272/2008

Issuing Date 28-Mar-2024

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Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Code(s)** 2301; 2301-1; 2305; 2355  
**Product Name** Detonox® Ultimate Precision Cleaner  
**Unique Formula Identifier (UFI)** 4890-007C-Y000-H70Y  
**Synonyms** None  
**Pure substance/mixture** Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Cleaning agent; Detergent  
**Uses advised against** Do not mix with other detergents unless otherwise specified

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

#### Supplier

Alconox Inc.  
30 Glenn St., Suite 309  
White Plains, NY 10603 USA  
914-948-4040

#### For further information, please contact

**E-mail address** [cleaning@alconox.com](mailto:cleaning@alconox.com)

### 1.4. Emergency telephone number

**Emergency telephone** ChemTel Inc.: North America: 1-888-255-3924  
International: +1-813-248-0573

#### Emergency telephone - §45 - (EC)1272/2008

Europe	112
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

<b>Skin irritation</b>	Category 2 - (H315)
<b>Serious eye damage</b>	Category 1 - (H318)
<b>Chronic aquatic toxicity</b>	Category 3 - (H412)

### 2.2. Label elements

Contains Alcohol ethoxylate; Decyl phenoxybenzenedisulfonic acid, disodium salt; Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-propanamine

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**Signal word**  
Danger

**Hazard statements**

H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary Statements - EU (§28, 1272/2008)**

P322 - Specific measures (see supplemental first aid instructions on this label).  
P264 - Wash face, hands and any exposed skin thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves and eye/face protection.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.  
P321 - Specific treatment (see supplemental first aid instructions on this label).

30.7 % of the mixture consists of ingredient(s) of unknown acute toxicity.

**Unknown aquatic toxicity**                      Contains 0 % of components with unknown hazards to the aquatic environment.

**2.3. Other hazards**

**Other hazards**                                      May be harmful if swallowed.

**PBT & vPvB**                                      The product does not contain any substance(s) classified as PBT or vPvB

**Endocrine Disruptor Information**              This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Alcohol ethoxylate 84133-50-6	5-10	No data available	No information available	Skin Irrit. 2; H315; Acute Tox. 4;H302; Eye Dam. 1; H318 *Self-class.	-	-	-
Decyl phenoxybenzenedisulfonic acid, disodium salt	5-10	No data available	253-040-8	Skin Irrit. 2; H315; Acute Tox. 4;H302; Eye Dam. 1;	-	-	-

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36445-71-3				H318 *Self-class.			
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-propanamine 68584-24-7	5-10	No data available	271-531-5	Acute Tox. 4; H302; Eye Dam. 1; H318 *Self-class.	-	-	-
Tetrapotassium pyrophosphate 7320-34-5	1-5	No data available	230-785-7	Eye Irrit. 2A; H319; Skin Irrit. 2; H315 *Self-class.	-	-	-

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Alcohol ethoxylate 84133-50-6	2100	No data available	No data available	No data available	No data available
Decyl phenoxybenzenedisulfonic acid, disodium salt 36445-71-3	900	1000	No data available	No data available	No data available
Tetrapotassium pyrophosphate 7320-34-5	No data available	2000	1.1	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation.

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**Effects of Exposure** No information available.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to doctors** Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

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

**Unsuitable extinguishing media** No information available.

#### **5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products** Thermal decomposition can lead to release of irritating gases and vapours.

#### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

#### **6.3. 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** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **6.4. Reference to other sections**

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

### **SECTION 7: Handling and storage**

#### **7.1. 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. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

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not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

**Storage class (TRGS 510)** LGK 10.

### 7.3. Specific end use(s)

**Specific use(s)** The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### **Derived No Effect Level (DNEL) - Workers**

Chemical name	Oral	Dermal	Inhalation
Tetrapotassium pyrophosphate 7320-34-5	-	-	17.63 mg/m <sup>3</sup> [4] [6]

#### **Notes**

[4] Systemic health effects.  
[6] Long term.

#### **Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
Tetrapotassium pyrophosphate 7320-34-5	-	-	4.35 mg/m <sup>3</sup> [4] [6]

#### **Notes**

[4] Systemic health effects.  
[6] Long term.

### 8.2. Exposure controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

#### **Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles. Eye protection must conform to standard EN 166.

**Hand protection** Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. (EN ISO 6529).

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are

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exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**Environmental exposure controls** Avoid release to the environment.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance** Transparent, Light yellow liquid  
**Physical state** Liquid  
**Colour** Transparent, light yellow  
**Odour** No information available  
**Odour threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>		No data available
<b>Initial boiling point and boiling range</b>		No data available
<b>Flammability</b>		No data available
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>		No data available
<b>Lower flammability or explosive limits</b>		No data available
<b>Flash point</b>	> 200 °C	
<b>Autoignition temperature</b>		No data available
<b>Decomposition temperature</b>		No data available
<b>pH</b>	10.5	1% aqueous solution
<b>pH (as aqueous solution)</b>		No data available
<b>Kinematic viscosity</b>		No data available
<b>Dynamic viscosity</b>		No data available
<b>Water solubility</b>		Soluble in water
<b>Solubility(ies)</b>		No data available
<b>Partition coefficient</b>		No data available
<b>Vapour pressure</b>		No data available
<b>Relative density</b>		No data available
<b>Bulk density</b>		No data available
<b>Liquid Density</b>		No data available
<b>Relative vapour density</b>		No data available
<b>Particle characteristics</b>		
<b>Particle Size</b>		No data available
<b>Particle Size Distribution</b>		No data available

**9.2. Other information**

**VOC content** 0%

9.2.1. Information with regards to physical hazard classes  
 Not applicable

9.2.2. Other safety characteristics  
 No information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity** None under normal use conditions.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

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**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

**10.4. Conditions to avoid**

Conditions to avoid None known based on information supplied.

**10.5. Incompatible materials**

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

**10.6. Hazardous decomposition products**

Hazardous decomposition products None known based on information supplied.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Symptoms Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

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

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

ATEmix (dermal) 9,250.60 mg/kg

ATEmix (inhalation-dust/mist) 17.00 mg/l

Oral LD50 &gt; 5000 mg/kg (rat)

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Alcohol ethoxylate	= 2100 mg/kg ( Rat )	-	-
Decyl phenoxybenzenedisulfonic acid, disodium salt	= 900 mg/kg ( Rat )	> 1000 mg/kg ( Rabbit )	-
Tetrapotassium pyrophosphate	-	> 2000 mg/kg ( Rabbit )	> 1.1 mg/L ( Rat ) 4 h

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

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<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes burns. Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Alcohol ethoxylate 84133-50-6	-	LC50: =3.2mg/L (96h, Pimephales promelas)	-	EC50: =3.2mg/L (48h, water flea)
Tetrapotassium pyrophosphate 7320-34-5	-	LC50: >100mg/L (96h, Oncorhynchus mykiss)	-	EC50: >100mg/L (48h, water flea)

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** No information available.

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
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Tetrapotassium pyrophosphate 7320-34-5	PBT assessment does not apply
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**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**12.7. Other adverse effects**

**Other adverse effects** No information available.

**SECTION 13: Disposal considerations**

**13.1. 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** Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information**

**IMDG** Not regulated  
**14.1 UN number or ID number** Not regulated  
**14.2 UN proper shipping name** Not regulated  
**14.3 Transport hazard class(es)** Not regulated  
**14.4 Packing group** Not applicable  
**14.5 Environmental hazards** Not applicable  
**14.6 Special Precautions for Users**  
     **Special Provisions** None  
**14.7 Maritime transport in bulk according to IMO instruments** No information available

**RID** Not regulated  
**14.1 UN number or ID number** Not regulated  
**14.2 UN proper shipping name** Not regulated  
**14.3 Transport hazard class(es)** Not regulated  
**14.4 Packing group** Not applicable  
**14.5 Environmental hazards** Not applicable  
**14.6 Special Precautions for Users**  
     **Special Provisions** None

**ADR** Not regulated  
**14.1 UN number or ID number** Not regulated  
**14.2 UN proper shipping name** Not regulated  
**14.3 Transport hazard class(es)** Not regulated  
**14.4 Packing group** Not applicable  
**14.5 Environmental hazards** Not applicable  
**14.6 Special Precautions for Users**  
     **Special Provisions** None

**ADN** Not regulated  
**14.1 UN/ID no** Not regulated  
**14.2 EPNN** Not regulated  
**14.3 Transport hazard class(es)** Not regulated  
**14.4 Packing group** Not applicable  
**14.5 Environmental hazard** Not applicable

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**14.6 Special Precautions for Users****Special Provisions** None

<b>IATA</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not applicable
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	None
<b>Note:</b>	None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Germany****Water hazard class (WGK)** slightly hazardous to water (WGK 1)**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

Contact supplier for inventory compliance status

**15.2. Chemical safety assessment****Chemical Safety Report** No information available**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorisation:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
STOT: Specific Target Organ Toxicity

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ATE: Acute Toxicity Estimate  
 LC50: 50% Lethal Concentration  
 LD50: 50% Lethal Dose

**Legend Section 8: Exposure controls/personal protection**

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
 Ceiling Maximum limit value Sk\* Skin designation  
 SCBA Self-contained breathing apparatus

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**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)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 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)  
 Japan GHS Classification  
 Australian 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)  
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
 Organisation for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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**Revision Note** Initial Release.

**This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006**

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**