

# SAFETY DATA SHEET



Electrolyte TEABr 0.4 mol/L

SDS Number: A10487-0000000004

In accordance with the Standard for Classification and Labeling of Chemical Substance and Safety Data Sheet,  
Article 10 Paragraph 1

## Section 1. Chemical product and company identification

A. Product name : Electrolyte TEABr 0.4 mol/L

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

Product use : Laboratory chemicals

C. Manufacturer / Importer / Distributor : Manufacturer  
**Metrohm AG**  
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Tel.: +41 (0)71 353 85 85  
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E-Mail: info@metrohm.com  
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Supplier  
**Hwashin Instrument Co., Ltd.**  
10, Nonhyeon-ro 81-Gil  
Gangnam-Gu  
Seoul 06237  
Korea

Tel.: +82 (2) 3450 5600  
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Emergency telephone number of the company : + 49 (0)6132-84463 (24 h, GBK GmbH)

## Section 2. Hazards identification

A. Hazard classification : ACUTE TOXICITY (oral) - Category 4  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol :

Signal word : Warning

Hazard statements : H302 - Harmful if swallowed.  
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

## Section 2. Hazards identification

- Prevention** : P260 - Do not breathe dust or mist.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.
- Response** : P314 - Get medical advice or attention if you feel unwell.
- Storage** : Not applicable.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

### C. Other hazards which do not result in classification

None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

Ingredient name	Common name	Identifiers	%
ethanediol	-	CAS: 107-21-1	≥90 - ≤95
tetrylammonium bromide	-	CAS: 71-91-0	≤10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

- A. Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
- B. Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- C. Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- D. Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- E. Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## Section 4. First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### A. Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog). Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : Do not use water jet.

**B. Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds

**C. Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Remark (Explosibility)** : Not considered to be a product presenting a risk of explosion.

## Section 6. Accidental release measures

**A. Personal precautions, protective equipment and emergency procedures** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**B. Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### C. Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### A. Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Keep away from ignition sources such as heat/sparks/open flame. - No smoking.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**B. Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### A. Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
ethanediol	<b>Ministry of Employment and Labor (Republic of Korea, 1/2020).</b> CEIL: 100 mg/m <sup>3</sup> Form: Vapour and mists

#### Biological exposure indices

No exposure indices known.

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**B. Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Personal protective equipment

**C. Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

## Section 8. Exposure controls/personal protection

estimated.

**Recommended:** Wear suitable gloves. > 8 hours (breakthrough time): nitrile rubber (thickness  $\geq 0.11$  mm)

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### A. Appearance

**Physical state** : Liquid.

**Color** : Colorless.

**B. Odor** : Odorless.

**C. Odor threshold** : Not available.

**D. pH** : 6

**E. Melting/freezing point** : Not available.

**F. Boiling point, initial boiling point, and boiling range** : 197.5 to 198.1°C (387.5 to 388.6°F)

**G. Flash point** : Closed cup: 111°C (231.8°F)

**Fire point** : Not available.

**H. Evaporation rate** : Not available.

**I. Flammability (solid, gas)** : Not available.

**J. Lower and upper explosive (flammable) limits** : Lower: 3.2%  
Upper: 53%

**Explosive properties** : Not considered to be a product presenting a risk of explosion.

**K. Vapor pressure** : 0.01 kPa (0.075006 mm Hg) [room temperature]

**L. Solubility in water** : Soluble.

**M. Vapor density** : Not available.

**N. Relative density** : Not available.

**Density** : 1.12088 g/cm<sup>3</sup>

**O. Partition coefficient: n-octanol/water** : Not applicable.

**P. Auto-ignition temperature** : Not self-ignitable.

Ingredient name	°C	°F	Method
ethanediol	398	748.4	

**Q. Decomposition temperature** : Not available.

**R. Viscosity** : Not available.

**S. Molecular weight** : Not applicable.

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

- A. Chemical stability** : The product is stable.  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- B. Conditions to avoid** : Keep away from heat, sparks and flame.
- C. Incompatible materials** : Reactive or incompatible with the following materials: Strong oxidizer, strong acids, strong alkalis.
- D. Hazardous decomposition products** : Hydrogen bromide, carbon dioxide, carbon monoxide.

## Section 11. Toxicological information

- A. Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : Harmful if swallowed.  
**Skin contact** : No known significant effects or critical hazards.  
**Eye contact** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No specific data.  
**Ingestion** : No specific data.  
**Skin contact** : No specific data.  
**Eye contact** : No specific data.

### **B. Health hazards**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Remarks
ethanediol	LC50 Inhalation Dusts and mists	Rat - Male, Female	>2.5 mg/l	6 hours	-
	LD50 Dermal	Mouse - Male, Female	>3500 mg/kg	-	ECHA
	LD50 Oral	Rat	500.1 mg/kg	-	-
tetrylammonium bromide	LD50 Dermal [OECD 402]	Rat - Male	>2000 mg/kg	-	-
	LD50 Oral [OECD 401]	Rat - Male	2500 mg/kg	-	-

**Conclusion/Summary** : Harmful if swallowed.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	Remarks

## Section 11. Toxicological information

ethanediol	Eyes - Non-irritating to the eyes.	Rabbit	-	-	24 hours	-
	Skin - Non-irritating to the skin.	Rabbit	-	-	20 hours	-
tetrylammonium bromide	Eyes - Non-irritating to the eyes. [OECD 405]	Rabbit	-	4 hours	-	-
	Skin - Non-irritating to the skin. [OECD 404]	Rabbit	-	4 hours	-	-

### Conclusion/Summary

**Skin** : Based on available data, the classification criteria are not met.  
**Eyes** : Based on available data, the classification criteria are not met.  
**Respiratory** : Not available.

### Sensitization

Product/ingredient name	Route of exposure	Species	Result	Remarks
ethanediol	skin	Guinea pig	Not sensitizing [OECD 406]	-
tetrylammonium bromide	skin	Guinea pig	Not sensitizing	-

### Conclusion/Summary

**Skin** : Based on available data, the classification criteria are not met.  
**Respiratory** : Not available.

### CMR - ISHA Article 42 Occupational Exposure Limits

Not available.

### Mutagenicity

Product/ingredient name	Test	Experiment	Result	Remarks
ethanediol	OECD 471, Ames	Subject: Bacteria Metabolic activation: with and without	Negative	Escherichia coli/ Salmonella typhimurium
	-	Subject: Mammalian-Animal	Negative	-
tetrylammonium bromide	OECD 471, Ames	Subject: Bacteria Metabolic activation: with and without	Negative	Salmonella typhimurium

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Carcinogenicity

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH
ethanediol	-	-	-	A4

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

## Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethanediol	Category 2	-	-

### Aspiration hazard

Not available.

### Potential chronic health effects

#### Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Remarks
tetrylammonium bromide	Sub-acute Oral	Rat - Male, Female	1000 mg/kg	28 days	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Electrolyte TEABr 0.4 mol/L	540.6	N/A	N/A	N/A	N/A
ethanediol	500.1	N/A	N/A	N/A	N/A
tetrylammonium bromide	2500	2500	N/A	N/A	N/A

## Section 12. Ecological information

### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure	Remarks
ethanediol	Acute EC20 >1995 mg/l [ISO 8192]	Activated sludge	30 minutes	-
	Acute EC50 >100 mg/l [OECD 202]	Daphnia - <i>Daphnia magna</i>	48 hours	-
	Acute IC5 >10000 mg/l	Algae - <i>Scenedesmus quadricauda</i>	7 days	-
	Acute LC50 >1500 mg/l	Fish - <i>Menidia peninsulae</i>	28 days	read-across
	Acute LC50 72860 mg/l [US-EPA]	Fish - <i>Pimephales promelas</i>	96 hours	-
	Chronic NOEC >40 mg/l	Fish - <i>Menidia peninsulae</i>	28 days	read-across
tetrylammonium bromide	Acute LC50 >200 mg/l [OECD 201]	Algae - <i>Chlorella vulgaris</i>	72 hours	-

## Section 12. Ecological information

	Acute LC50 65.6 mg/l [OECD 202]	Daphnia - <i>Daphnia magna</i>	48 hours	-
	Acute LC50 >100 mg/l [OECD 203]	Fish - <i>Danio rerio</i>	96 hours	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethanediol	OECD 301 A	90 to 100 % - Readily - 10 days	-	-
tetrylammonium bromide	OECD 301D	22.4 % - Readily - 28 days	-	-

**Conclusion/Summary** : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanediol	-	-	Readily
tetrylammonium bromide	-	-	Readily

### C. Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
ethanediol	-1.36	-	Low
tetrylammonium bromide	-2.82	-	Low

### D. Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**E. Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**A. Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**B. Disposal precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	UN	IMDG	IATA
<b>A. UN number</b>	Not regulated.	Not regulated.	Not regulated.
<b>B. UN proper shipping name</b>	Not regulated.	Not regulated.	Not regulated.
<b>C. Transport hazard class(es)</b>	Not regulated.	Not regulated.	Not regulated.
<b>Label</b>			
<b>D. Packing group</b>	Not regulated.	Not regulated.	Not regulated.
<b>E. Environmental hazards</b>	No.	Marine Pollutant: No	No.

**F. Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not applicable.

## Section 15. Regulatory information

### A. Regulation according to ISHA

**ISHA article 117 (Harmful substances prohibited from manufacture)** : None of the components are listed.

**ISHA article 118 (Harmful substances requiring permission)** : None of the components are listed.

### Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:  
ethanediol

**ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)** : None of the components are listed.

**ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)** : The following components are listed: ethylene glycol

**ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-up)** : The following components are listed: Ethylene glycol

**Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)** : The following components are listed: ethylene glycol

## Section 15. Regulatory information

### B. Regulation according to Chemicals Control Act

**Article 11 (TRI)** : None of the components are listed.

**Article 18 Prohibited (K-Reach Article 27)** : None of the components are listed.

**Article 19 Subject to authorization (K-Reach Article 25)** : None of the components are listed.

**Article 20 Toxic Chemicals (K-Reach Article 20)** : Not applicable

**Article 20 Restricted (K-Reach Article 27)** : None of the components are listed.

**Article 39 (Accident Precaution Chemicals)** : None of the components are listed.

**C. Dangerous Materials Safety Management Act** : **Class:** Class 4 - Flammable Liquid  
**Item:** 5. Class 3 petroleums - Water soluble liquid  
**Threshold:** 4000 L  
**Danger category:** III  
**Signal word:** Contact with sources of ignition prohibited

**D. Wastes regulation** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

### E. Other regulations in Korea and International regulations

**Article 2 of Youth Protection Act on Substances Hazardous to Youth** : Not applicable.

**Existing Chemical Substances Subject to Registration** : None of the components are listed.

#### International regulations

##### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

##### Montreal Protocol

Not listed.

##### Stockholm Convention on Persistent Organic Pollutants

Not listed.

##### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

##### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : All components are listed or exempted.  
**Canada** : All components are listed or exempted.  
**China** : All components are listed or exempted.  
**Eurasian Economic Union** : **Russian Federation inventory:** All components are listed or exempted.  
**Japan** : **Japan inventory (CSCL):**  
All components are listed or exempted.  
**New Zealand** : All components are listed or exempted.  
**Philippines** : All components are listed or exempted.

## Section 15. Regulatory information

Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: All components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

## Section 16. Other information

A. References	: - Registry of Toxic Effects of Chemical Substances - United States Environmental Protection Agency ECOTOX
B. Date of issue/Date of revision	: 2023/10/17
Date of previous issue	: 2023/05/23
C. Version	: 3
Date of printing	: 2023/10/18
Other	

Indicates information that has changed from previously issued version.

Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations
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### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.