

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

<b>Product Description:</b>	<b>Borane-dimethylamine complex</b>
<b>Cat No. :</b>	<b>89149</b>
<b>Synonyms</b>	DMAB; Dimethylamineborane
<b>CAS No</b>	74-94-2
<b>Molecular Formula</b>	C <sub>2</sub> H <sub>10</sub> B N

**Relevant identified uses of the substance or mixture and uses advised against**

<b>Recommended Use</b>	Laboratory chemicals.
<b>Uses advised against</b>	No Information available

**Details of the supplier of the safety data sheet**

<b>Importer</b>	<b>Supplier</b>
Fisher Scientific Korea	Thermo Fisher Scientific Chemicals, Inc.
D5,D6, Incheon Airport Logistics Complex	30 Bond Street
150, Gonghangdong-Ro 296 Beon-Gil	Ward Hill, MA 01835-8099
Jung-Gu, Incheon	
Tel: +82-1661-9555	
Fax: +82-2-2023-0603	

<b>E-mail address</b>	Chem.KR@thermofisher.com
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**Emergency Telephone Number**

Emergency telephone: Medical: +(82) 070-7686-0086 or + 1-703-741-5970  
 CHEMTREC: 080 822 1374 (Local), CHEMTREC: 1-800-424-9300 or + 1-703-527-3887  
 Korea: 00-308-13-2549 (24 hours a day, 7 days a week)

## SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**
**Physical hazards**

Flammable solids

Category 2

**Health hazards**

Based on available data, the classification criteria are not met

**Environmental hazards**

Based on available data, the classification criteria are not met

**Label Elements**

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**Signal Word**

**Warning**

**Hazard Statements**

H228 - Flammable solid

**Precautionary Statements**

**Prevention**

P241 - Use explosion-proof electrical/ ventilating/ lighting equipment

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P240 - Ground and bond container and receiving equipment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Response**

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

**Other Hazards**

This product does not contain any known or suspected endocrine disruptors

**NFPA**

**Health**  
3

**Flammability**  
2

**Instability**  
0

**Physical hazards**  
N/A

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Component	Common Name	CAS No	Index No	Weight %
Boron, trihydro(N-methylmethanamine)-, (T-4)-	DMAB; Dimethylamineboran e	74-94-2	KE-05-0520	99 - 100

## SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

**General Advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Eye Contact**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

**Ingestion**

Do NOT induce vomiting. Call a physician or poison control center immediately.

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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Immediate medical attention is required.

**Self-Protection of the First Aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

None reasonably foreseeable.

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

**Notes to Physician** Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**Extinguishing media**

**Suitable Extinguishing Media**

Dry chemical. Water spray. Water mist may be used to cool closed containers.

**Extinguishing media which must not be used for safety reasons**

Do not use halon type extinguisher.

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

Flammable. Containers may explode when heated.

**Hazardous Combustion Products**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Hydrogen, Oxides of boron, Amines.

**Advice for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges.

**Environmental precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

**Methods and Material for Containment and Cleaning Up**

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Remove all sources of ignition.

**Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling**

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Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition.

## Conditions for Safe Storage, Including any Incompatibilities

Keep refrigerated. Keep under nitrogen. Keep container tightly closed. Keep away from heat, sparks and flame.

## Specific End Uses

Use in laboratories.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Component	CAS No	Korea	ACGIH TLV	OSHA PEL
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not listed	Not listed	Not listed

Component	CAS No	European Union	The United Kingdom	Germany
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not listed	Not listed	Not listed

### ACGIH - Biological Exposure Indices

Component	CAS No	ACGIH - Biological Exposure Indices
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not listed

### Exposure Controls

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Personal protective equipment

#### Eye Protection

Goggles

#### Hand Protection

Protective gloves

#### Skin and body protection

Long sleeved clothing

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

#### Personal protective equipment

#### Respiratory Protection

Use only those certified by the Korea Occupational Safety and Health Administration.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

#### Recommended Filter type:

Particulates filter conforming to EN 143

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

When RPE is used a face piece Fit Test should be conducted

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## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

## Environmental exposure controls

No information available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance (Physical State, Color, etc.) Light yellow Solid

Odor

Rotten-egg like

Odor Threshold

No data available

pH

8-9

10 g/L aq.sol

Melting Point/Range

33 - 37 °C / 91.4 - 98.6 °F

Softening Point

No data available

Boiling Point/Range

No information available

Flash Point

65 °C / 149 °F

Method - No information available

Evaporation Rate

Not applicable

Solid

Flammability (solid,gas)

No information available

Explosion Limits

No data available

Vapor Pressure

5.3 mbar @ 70 °C

Vapor Density

Not applicable

Solid

Specific Gravity / Density

0.73 @ 20°C

Bulk Density

No data available

Water Solubility

125 g/L (20°C)

Solubility in other solvents

No information available

### Partition Coefficient (n-octanol/water)

Component	CAS No	log Pow
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	No data available

Autoignition Temperature

175 °C / 347 °F

Decomposition Temperature

> 50°C

Viscosity

Not applicable

Solid

Explosive Properties

explosive air/vapour mixtures possible

Oxidizing Properties

No information available

Molecular Formula

C<sub>2</sub> H<sub>10</sub> B N

Molecular Weight

58.92

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

None known, based on information available

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## Chemical Stability

heat sensitive. Moisture sensitive.

## Possibility of Hazardous Reactions

### **Hazardous Polymerization Hazardous Reactions**

Hazardous polymerization does not occur.  
None under normal processing.

## Conditions to Avoid

Temperatures above 50 °C / 122 °F. Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

## Incompatible Materials

Acids. Strong oxidizing agents. oxygen. Metals.

## Hazardous Decomposition Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen. Oxides of boron. Amines.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Product Information

#### Information on expected route of exposure

**Inhalation** Not an expected route of exposure.  
**Ingestion** May be harmful if swallowed.  
**Eyes** Avoid contact with eyes.  
**Skin** Avoid contact with skin.

#### Information on Health Hazards

##### (a) acute toxicity;

**Oral** Based on available data, the classification criteria are not met  
**Dermal** Based on available data, the classification criteria are not met  
**Inhalation** Based on available data, the classification criteria are not met

Component	CAS No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	LD50 = 59 mg/kg ( Rat )	LD50 = 210 mg/kg ( Rabbit )	No data available

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

##### (d) respiratory or skin sensitization;

**Respiratory** No data available  
**Skin** No data available

Component	CAS No	Test method	Test species	Study result
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	No data available	No data available	No data available

(e) germ cell mutagenicity; No data available

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Component	CAS No	Test method	Test species	Study result
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	No data available	No data available	No data available

Not mutagenic in AMES Test

(f) carcinogenicity; No data available

Component	CAS No	Test method	Test species / Duration	Study result
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	No data available	No data available	No data available

There are no known carcinogenic chemicals in this product

Component	CAS No	IARC	NTP	ACGIH	OSHA	UK
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not listed	Not listed	Not listed	Not listed	Not listed

(g) reproductive toxicity; No data available

Component	CAS No	Test method	Test species / Duration	Study result
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	No data available	No data available	No data available

(h) STOT-single exposure; No data available  
Results / Target organs Respiratory system.

(i) STOT-repeated exposure; No data available  
Target Organs No information available.

(j) aspiration hazard; Not applicable  
Solid

Other Adverse Effects  
No information available.

Component	CAS No	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects Do not empty into drains. .

Component	CAS No	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	No data available	No data available	No data available	No data available

Persistence and degradability  
Persistence Soluble in water, Persistence is unlikely, based on information available.

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**Bioaccumulative potential** Bioaccumulation is unlikely

**Mobility in soil** The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

## Ozone Depletion Potential

Component	CAS No	Ozone Depletion Potential
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not listed

**Other adverse effects** No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste from Residues/Unused Products** Waste is classified as hazardous. Dispose in accordance with the Wastes Control Act (폐기물관리법).

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

**Other Information** Waste codes should be assigned by the user based on the application for which the product was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations.

## SECTION 14: TRANSPORT INFORMATION

### Road and Rail Transport

UN-No	UN2926
Proper Shipping Name	Flammable solid, toxic, organic, n.o.s.
Technical Shipping Name	Borane-dimethylamine complex
Hazard Class	4.1
Subsidiary Hazard Class	6.1
Packing Group	II

### IATA

UN-No	UN2926
Proper Shipping Name	FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.*
Technical Shipping Name	Borane-dimethylamine complex
Hazard Class	4.1
Subsidiary Hazard Class	6.1
Packing Group	II

### IMDG/IMO

UN-No	UN2926
Proper Shipping Name	Flammable solid, toxic, organic, n.o.s.
Technical Shipping Name	Borane-dimethylamine complex
Hazard Class	4.1
Subsidiary Hazard Class	6.1
Packing Group	II
Marine Pollutant	No hazards identified

**Special Precautions for User** No special precautions required

## SECTION 15: REGULATORY INFORMATION



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## Safety, health and environmental regulations/legislation specific for the substance or mixture

Legend: X - Listed '-' - Not Listed

### International Inventories

Component	CAS No	KECL	TSCA	EINECS	IECSC	DSL	NDSL	PICCS	ENCS	ISHL	AICS
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	KE-05-0520	X	200-823-7	X	X	-	X	X	X	X

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable

### Korean National Regulations

Component	CAS No	Act on Registration and Evaluation of Chemical Substances (K-REACH)	Ministry of Environment - CMR risk	Ministry of Environment - Critically Controlled Substance
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Annex 1 - KE-05-0520	Not applicable	Not applicable

Component	CAS No	Chemical Control Act - Acute Hazard to Human Health	Chemical Control Act - Chronic Hazard to Human Health	Chemical Control Act - Ecological Hazard
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	97-1-41 (>=25%)	Not applicable	Not applicable

Component	CAS No	Chemical Control Act - Accident Precaution Chemicals (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Storage (% in mixtures)	Chemical Control Act - Accident Precaution Chemicals - Quantity limits Manufacture/Use (% in mixtures)
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable

Component	CAS No	Chemical Control Act - Prohibited Chemicals	Chemical Control Act - Use Restricted Chemicals	Chemical Control Act - Authorised Chemicals
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable

Component	CAS No	Waste Control Law
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	> 25% (CCA)

CCA = Chemical Control Act

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Component	CAS No	ISHA - Harmful Agents Subject to Work Environment Monitoring	ISHA - Prohibited substances	ISHA - Substances requiring permission
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Substances subject to control	ISHA - Harmful Agents Requiring Health Examination	ISHA - Permissible Exposure Limits
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable

Component	CAS No	ISHA - Subject to Process Safety Reports (minimum quantity)	ISHA - Threshold Limit Values (TLVs) Chemicals	ISHA - Special management materials
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable

**National Fire Association - Dangerous Substances** Minimum quantity requiring a permit

Component	CAS No	Class 1 - Oxidising solids	Class 2 - Flammable solid	Class 3 - Spontaneously Combustible Substances and Dangerous Substances When Wet	Class 4 - Flammable liquids	Class 5 - Self-reactive substances	Class 6 - Oxidising liquids
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**NFA Dangerous Substances Classification**

Class 2.8 (Containing 1-7) - 100 kg

**Control Parameters**

Component	CAS No	Korea	ACGIH - Biological Exposure Indices
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not listed	Not listed

## US Management Information

OSHA - Occupational Safety and Health Administration

Not applicable

Component	CAS No	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable

**CERCLA**

Not applicable

Component	CAS No	CERCLA Extremely Hazardous Substances RQs	Hazardous Substances RQs	SARA 313 - Threshold Values %
Boron, trihydro(N-methylmethanamine)-, (T-4)-	74-94-2	Not applicable	Not applicable	Not applicable

**GHS Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567**

Danger.

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H228 - Flammable solid. H301 + H311 - Toxic if swallowed or in contact with skin. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H335 - May cause respiratory irritation.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 - Immediately call a POISON CENTER or doctor/physician.

## SECTION 16: OTHER INFORMATION

### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**POW** - Partition coefficient Octanol:Water

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - (Volatile Organic Compound)

### **Key literature references and sources for data**

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

### **Prepared By**

Health, Safety and Environmental Department

### **Creation Date**

22-Aug-2009

### **Revision Date**

08-Aug-2025

### **Revision Number**

7

### **Revision Summary**

SDS sections updated.

## **MOEL's Public Notice No. 2023-9 (Standards for Classification and Labeling of Chemical Substances and Safety Data Sheets)**

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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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**