



# SAFETY DATA SHEET

In accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

**PRIMER MSP**  
Revision Number 1

Revision date 22-Apr-2020  
Supersedes Date: 22-Apr-2020

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

**Product Name** PRIMER MSP

### Other means of identification

**Synonyms** None

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

**Recommended use** Primers

**Uses advised against** Consumer use

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

**Responsible Party**  
**Bostik Canada Limited**  
8298 Boul Pie-IX  
Montreal, Quebec  
H1Z 4E8, Canada  
Phone: +1 (514) 593-0418  
Fax: +1 (514) 593-0413

**Manufacturer Address**  
Bostik GmbH  
An der Bundesstrasse 16  
33829 Borgholzhausen, Germany  
Tel: +49 (0) 5425 / 801 0  
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E-mail msds@bostik.com

### Emergency telephone number

**Chemtrec:** 1-800-424-9300 (Transport/Environmental)  
**Rocky Mountain Poison Center:** 1-866-767-5089

## 2. Hazards Identification

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction

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Suspected of damaging fertility or the unborn child  
May cause respiratory irritation  
May cause drowsiness or dizziness  
May cause damage to organs through prolonged or repeated exposure  
Highly flammable liquid and vapor



## **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Contaminated work clothing should not be allowed out of the workplace  
Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray  
Ground and bond container and receiving equipment  
Use non-sparking tools  
Take action to prevent static discharges  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Keep container tightly closed  
Keep cool  
Use explosion-proof electrical/ ventilating/ lighting/ equipment

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

## **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

## **Skin**

Take off contaminated clothing and wash it before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
Wash contaminated clothing before reuse

## **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing

## **Fire**

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

## **Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

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## Other information

**Unknown acute toxicity** 3 % of the mixture consists of ingredient(s) of unknown toxicity

## **3. Composition/information on Ingredients**

### Substance

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Toluene	108-88-3	45 - 70	-	-
1-Butanol	71-36-3	1 - 5	-	-
Methyl methacrylate	80-62-6	0.1 - 1	-	-
Butyl methacrylate	97-88-1	0.1 - 1	-	-

## **4. First Aid Measures**

### FIRST AID

#### **General advice**

Show this safety data sheet to the doctor in attendance.

#### **Inhalation**

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. If breathing is difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.

#### **Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### **Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

#### **Ingestion**

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

#### **Self-protection of the first aider**

Remove all sources of ignition. Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing.

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

#### **Symptoms**

Itching. Rashes. Hives. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Irritating to skin. May cause sensitization by skin contact. May cause redness and tearing of the eyes.

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

#### **Note to physicians**

May cause sensitization in susceptible persons. May cause sensitization by skin contact.

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Treat symptomatically.

## 5. Fire-Fighting Measures

<b>Suitable extinguishing media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	Do not use straight streams. CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	Risk of ignition. Keep product and empty container away from heat and sources of ignition. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact.
<b>Hazardous combustion products</b>	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ).
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	Yes.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Evacuate personnel to safe areas. Use personal protective equipment as required. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Avoid breathing vapors or mists. Ensure adequate ventilation. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
<b>Other information</b>	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.
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### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Dike far ahead of spill; use dry sand to contain the flow of material. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
<b>Methods for cleaning up</b>	Use personal protective equipment as required. Dam up. Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.
<b>Prevention of secondary hazards</b>	Eliminate all ignition sources if safe to do so.

## 7. Handling and Storage

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## Precautions for safe handling

### **Advice on safe handling**

Use personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Avoid breathing vapors or mists. Use with local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse.

## Conditions for safe storage, including any incompatibilities

### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep/store only in original container. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations.

### **Reference to other sections**

See Section 12: ECOLOGICAL INFORMATION  
Section 7: HANDLING AND STORAGE  
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **8. Exposure Controls/Personal Protection**

### Control parameters

#### **Exposure Limits**

<b>Chemical name</b>	<b>Alberta</b>	<b>British Columbia</b>	<b>Ontario TWA</b>	<b>Quebec</b>
Toluene 108-88-3	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> Skin	TWA: 20 ppm Adverse reproductive effect	TWA: 20 ppm	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> Skin
1-Butanol 71-36-3	TWA: 20 ppm TWA: 60 mg/m <sup>3</sup>	TWA: 15 ppm Ceiling: 30 ppm	TWA: 20 ppm	Ceiling: 50 ppm Ceiling: 152 mg/m <sup>3</sup> Skin
Methyl methacrylate 80-62-6	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 100 ppm STEL: 410 mg/m <sup>3</sup>	TWA: 50 ppm STEL: 100 ppm Dermal Sensitizer	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm TWA: 205 mg/m <sup>3</sup>
Butyl methacrylate 97-88-1		TWA: 50 ppm		

### Appropriate engineering controls

#### **Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

#### **Eye/face protection**

Wear safety glasses with side shields (or goggles).

#### **Hand protection**

Wear suitable gloves. Impervious gloves.

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<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	No information available
<b>Color</b>	Colorless to yellow
<b>Odor</b>	Solvent
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	.	
<b>Melting point / freezing point</b>	No data available	
<b>Boiling point / boiling range</b>	111 °C / 232 °F	
<b>Flash point</b>	8 °C / 46 °F	DIN 51755 Part 1
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	Not applicable for liquids .	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	ca. 7 Vol.%	
<b>Lower flammability or explosive limits</b>	ca. 1.2 Vol.%	
<b>Vapor pressure</b>	< 1100	hPa @ 50 °C
<b>Vapor density</b>	No data available	
<b>Relative density</b>	0.95	
<b>Water solubility</b>	Insoluble	
<b>Solubility in Other Solvents</b>	No data available	
<b>Partition coefficient</b>	No data available	
<b>Autoignition temperature</b>	420 °C / 788 °F	
<b>Decomposition temperature</b>	No data available	
<b>Kinematic viscosity</b>	21 mm <sup>2</sup> /s	@ 40°C
<b>Dynamic viscosity</b>	approx. 100 mPa s	
<b>Explosive properties</b>	No information available.	
<b>Oxidizing properties</b>	No information available.	
<b>Other information</b>		
<b>Softening Point</b>	No information available	
<b>Molecular weight</b>	No information available	
<b>Density</b>		0.95 g/cm <sup>3</sup>
<b>Bulk density</b>	No information available	
<b>Solid content (%)</b>	approx. 37	
<b>VOC Content (%)</b>	approx. 600 g/L / 63 %	

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## 10. Stability and Reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ).

## 11. Toxicological Information

### Information on likely routes of exposure

#### Product Information

Inhalation	May cause irritation of respiratory tract. May cause drowsiness or dizziness.
Eye contact	Irritating to eyes.
Skin contact	May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Causes skin irritation.
Ingestion	Based on available data, the classification criteria are not met.

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

Symptoms	Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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### Numerical measures of toxicity

#### Acute Toxicity

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

ATEmix (oral)	14,326.60 mg/kg
ATEmix (dermal)	82,457.60 mg/kg
ATEmix (inhalation-dust/mist)	501.00 mg/l
ATEmix (inhalation-vapor)	3,000.00 mg/l

#### Unknown acute toxicity

3 % of the mixture consists of ingredient(s) of unknown toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene 108-88-3	=5580 mg/kg (Rattus)	= 12000 mg/kg (Oryctolagus cuniculus)	>20 mg/L (Rattus) 4 h
1-Butanol	=700 mg/kg (Rattus)	= 3400 mg/kg (Oryctolagus	>8000 ppm (Rattus) 4 h

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71-36-3	= 790 mg/kg (Rattus)	cuniculus) = 3402 mg/kg (Oryctolagus cuniculus)	
Methyl methacrylate 80-62-6	=7872 mg/kg (Rattus)	5000 - 7500 mg/kg (Oryctolagus cuniculus) > 5 g/kg (Oryctolagus cuniculus)	=7093 ppm (Rattus) 4 h
Butyl methacrylate 97-88-1	=16 g/kg (Rattus)	= 11300 mg/kg (Oryctolagus cuniculus)	=4910 ppm (Rattus) 4 h

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

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	May cause sensitization by skin contact.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Toluene 108-88-3	-	Group 3	-	-
Methyl methacrylate 80-62-6	-	Group 3	-	-

**IARC (International Agency for Research on Cancer)**  
Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** Classification based on data available for ingredients. Contains a known or suspected reproductive toxin. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Component Information		
Toluene (108-88-3)		
Method	Species	Results
OECD 407	in vivo	Reproductive toxicant

<b>STOT - single exposure</b>	May cause respiratory irritation. May cause drowsiness or dizziness.
<b>STOT - repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Target organ effects</b>	liver, Eyes, Skin, kidney, blood, Central nervous system, Respiratory system.
<b>Subchronic toxicity</b>	No information available.
<b>Neurological effects</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. Ecological Information

**Ecotoxicity** .



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Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Toluene 108-88-3	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50 = 19.7 mg/L 30 min	EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna)
1-Butanol 71-36-3	EC50 (72h) = 225 mg/L (Pseudokirchneriella subcapitata)	LC50 (96h) = 1376 mg/l (Pimephales promelas) OECD 203	EC50 = 2041.4 mg/L 5 min EC50 = 2186 mg/L 30 min EC50 = 3980 mg/L 24 h EC50 = 4400 mg/L 17 h	EC 50 (48h) = 1328 mg/l (Daphnia magna) OECD 202
Methyl methacrylate 80-62-6	EC50: =170mg/L (96h, Pseudokirchneriella subcapitata)	LC50 96 h > 79 mg/L (Oncorhynchus mykiss static) Lepomis macrochirus 96h =191-283 mg/l	-	EC50: =69mg/L (48h, Daphnia magna)
Butyl methacrylate 97-88-1	EC50: =57mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =11mg/L (96h, Pimephales promelas)	EC50 = 37 mg/L 5 min EC50 = 49 mg/L 15 min EC50 = 55 mg/L 30 min EC50 > 253.6 mg/L 18 h	EC50: =32mg/L (48h, Daphnia magna)

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

Chemical name	Partition coefficient
Toluene 108-88-3	2.7
1-Butanol 71-36-3	0.785
Methyl methacrylate 80-62-6	1.38
Butyl methacrylate 97-88-1	2.26

**Mobility in soil** No information available

**Other adverse effects** No information available.

## 13. Disposal Considerations

### Waste treatment methods

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

## 14. Transport Information

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**Note:** The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition) The information shown here, may not always agree with the bill of lading shipping description for the material

## TDG

**UN/ID No** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s. (Toluene, 1-Butanol)  
**Hazard class** 3  
**Packing Group** II  
**Special Provisions** 16, 150  
**Description** UN1993, Flammable liquid, n.o.s. (Toluene, 1-Butanol), 3, II

## IATA

**UN number** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s. (Toluene, 1-Butanol)  
**Transport hazard class(es)** 3  
**Packing group** II  
**ERG Code** 3H  
**Special Provisions** A3  
**Description** UN1993, Flammable liquid, n.o.s. (Toluene, 1-Butanol), 3, II

## IMDG

**UN number** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s. (Toluene, 1-Butanol)  
**Transport hazard class(es)** 3  
**Packing group** II  
**EmS-No.** F-E, S-E  
**Special Provisions** 274  
**Description** UN1993, Flammable liquid, n.o.s. (Toluene, 1-Butanol), 3, II, (8°C c.c.)

## 15. Regulatory Information

### **NPRI - National Pollutant Release Inventory**

No component is listed on the NPRI above the threshold

### **European Union**

#### **Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU**

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

#### **SVHC: Substances of Very High Concern for Authorization:**

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)

### **International Inventories**

<b>TSCA</b>	Listed
<b>DSL</b>	Listed

#### **Legend:**

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

**DSL** - Canadian Domestic Substances List

**Listed** - The components of this product are either listed or exempt from listing on inventory.

**Not Listed** - One or more components of this product are not listed on inventory.

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## 16. Other information, including date of preparation of the last revision

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

Revision date 22-Apr-2020

Revision note No information available.

Prepared By Product Safety & Regulatory Affairs

### 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**