

## FORMALIN 10%, PHOSPHATE BUFFERED,

# NEUTRAL

Safety Data Sheet According to SANS 10234:2008 and SANS 11014:2010

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Version: 1.0

| SECTION 1: Identification   |   |  |
|---|---|--|
| 1.1. Product identifier   |   |  |
| Product form  | : Mixture   |  |
| Trade name  | : FORMALIN 10%, PHOSPHATE BUFFERED, NEUTRAL   |  |
| Product code  | : 206039x   |  |
| 1.2. Relevant identified uses of the  | substance or mixture and uses advised against   |  |
| Recommended uses and restrictions   | : For laboratory use only   |  |
| 1.3. Supplier's details   |   |  |
| Labchem (Pty)Ltd<br>6 Wakefield Road<br>Founders Hill<br>1609 Johannesburg - South Africa<br>T +27 11 452 1116 - F +27 86 588 0293<br>techlab@labchem.co.za - www.labchem.co<br>1.4. Emergency telephone number<br>Emergency number |   |  |
|   | . 21 11 402 1110  |  |
| <b>SECTION 2: Hazards identificati</b>  | on  |  |
| 2.1. Classification of the substance  | e or mixture  |  |
| Classification according to the United N  | ations GHS  |  |
| Flammable liquids, Category 4   | H227  |  |
| Acute toxicity (oral), Category 5   | H303  |  |
| Skin corrosion/irritation, Category 2   | H315  |  |
| Serious eye damage/eye irritation,<br>Category 1  | H318  |  |
| Skin sensitisation, Category 1  | H317  |  |
| Germ cell mutagenicity, Category 2  | H341  |  |
| Carcinogenicity, Category 1B  | H350  |  |
| Full text of H statements : see section 16  |   |  |
| 2.2. Label elements   |   |  |
| Labelling according to the United Nation<br>Hazard pictograms (GHS-ZA)  | Ins GHS   |  |
| Signal word (CLIS 7A)   | GHS05 GHS07 GHS08   |  |
| Signal word (GHS-ZA)<br>Hazardous ingredients   | : Danger<br>: formaldehyde  |  |
| Hazard statements (GHS-ZA)  | <ul> <li>H1227 - Combustible liquid</li> <li>H303 - May be harmful if swallowed</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H341 - Suspected of causing genetic defects.</li> <li>H350 - May cause cancer.</li> </ul>  |  |
| Precautionary statements (GHS-ZA)   | <ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P310 - Immediately call a POISON CENTER or doctor.</li> </ul> |  |
| 27/02/2020  | ZA - en 1/7   |  |

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

|      |   | <ul> <li>P312 - Call a POISON CENTER or doctor if you feel unwell.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P370+P378 - In case of fire: Use media other than water to extinguish.</li> <li>P403 - Store in a well-ventilated place.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul> |
|------|---|---|
| 2.3. | Other hazards   |   |
|      | e physicochemical, human health and<br>mental effects | : May cause cancer, Suspected of causing genetic defects, Harmful if swallowed, Causes skin irritation, May cause an allergic skin reaction, Causes serious eye damage.   |

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

3.1. Substances

| Not applicable |  | NOL | аррі | icable |  |
|----------------|--|-----|------|--------|--|
|----------------|--|-----|------|--------|--|

| Nome                            |                     |       |   |
|---------------------------------|---------------------|-------|---|
| Name                            | Product identifier  | %     | Classification according to the United Nations GHS  |
| water                           | (CAS-No.) 7732-18-5 | > 95  | Not classified  |
| formaldehyde                    | (CAS-No.) 50-00-0   | < 4.0 | Flam. Liq. 4, H227<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Carc. 1B, H350 |
| disodium hydrogenorthophosphate | (CAS-No.) 7558-79-4 | < 1.0 | Aquatic Acute Not classified  |
| Monosodium phosphate            | (CAS-No.) 7558-80-7 | < 0.5 | Aquatic Acute Not classified  |

#### Full text of H-statements: see section 16

| SECTION 4: First aid measures                    |  |
|--|--|
| 4.1. Description of first aid measures           |  |
| First-aid measures general                       | : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.  |
| First-aid measures after inhalation              | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact            | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.                   |
| First-aid measures after eye contact             | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion               | : Rinse mouth. Call a poison center or a doctor if you feel unwell.  |
| 4.2. Most important symptoms and effe            | cts, both acute and delayed  |
| Symptoms/effects after skin contact              | : Irritation. May cause an allergic skin reaction.   |
| Symptoms/effects after eye contact               | : Serious damage to eyes.  |
| 4.3. Indication of any immediate medica          | I attention and special treatment needed   |
| Treat symptomatically.                           |  |
| SECTION 5: Firefighting measures                 |  |
| 5.1. Extinguishing media                         |  |
| Suitable extinguishing media                     | : Water spray. Dry powder. Foam. Carbon dioxide.   |
| 5.2. Special hazards arising from the su         | bstance or mixture   |
| Fire hazard                                      | : Combustible liquid.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.   |
| 5.3. Advice for firefighters                     |  |
| Protection during firefighting                   | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.             |

### Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| According to SANS 10234:2008 and SANS 11014:2010   |   |  |
|--|---|--|
| SECTION 6: Accidental release measures   |   |  |
| 6.1. Personal precautions, protective eq   | uipment and emergency procedures  |  |
| No additional information available  |   |  |
| 6.1.1. For non-emergency personnel   |   |  |
| Emergency procedures   | : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable  |  |
|  | protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapours/spray.   |  |
| 6.1.2. For emergency responders  |   |  |
| Protective equipment   | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".   |  |
| 6.2. Environmental precautions   |   |  |
| Avoid release to the environment. Notify authoriti   | ies if product enters sewers or public waters.  |  |
| 6.3. Methods and material for containme  | ent and cleaning up   |  |
| Methods for cleaning up  | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.   |  |
| Other information  | : Dispose of materials or solid residues at an authorized site.   |  |
| SECTION 7: Handling and storage  |   |  |
| 7.1. Precautions for safe handling   |   |  |
| <ul> <li>Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.</li> </ul> |   |  |
| Hygiene measures   | : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |  |
| 7.2. Conditions for safe storage, including  | ng any incompatibilities  |  |
| Storage conditions   | : Store in a well-ventilated place. Keep cool. Store locked up.   |  |
| SECTION 8: Exposure controls/pers  | onal protection   |  |
| 8.1. Control parameters  |   |  |
| FORMALIN 10%, PHOSPHATE BUFFERED, I  | NEUTRAL   |  |
| South Africa - Occupational Exposure Limit   | s (Control Limits)  |  |
| Local name   | Formaldehyde  |  |
| OEL TWA (mg/m <sup>3</sup> )   | 3 mg/m <sup>3</sup>   |  |
| OEL TWA (ppm)  | 2 ppm   |  |
| OEL STEL (mg/m <sup>3</sup> )  | 3 mg/m <sup>3</sup>   |  |
| OEL STEL (ppm)   | 2 ppm   |  |
| egulatory reference Government Notice. R: 1179   |   |  |
| formaldehyde (50-00-0)   |   |  |
| · · · · · · · · · · · · · · · ·  | s (Control Limits)  |  |
| South Africa - Occupational Exposure Limit   |   |  |
| South Africa - Occupational Exposure Limits  | Formaldehyde  |  |
| Local name   | Formaldehyde<br>3 mg/m <sup>3</sup>   |  |
| Local name<br>OEL TWA (mg/m³)  | 3 mg/m <sup>3</sup>   |  |
| Local name<br>OEL TWA (mg/m³)<br>OEL TWA (ppm)   | 3 mg/m <sup>3</sup><br>2 ppm  |  |
| Local name<br>OEL TWA (mg/m³)<br>OEL TWA (ppm)<br>OEL STEL (mg/m³)   | 3 mg/m <sup>3</sup><br>2 ppm<br>3 mg/m <sup>3</sup>   |  |
| Local name<br>OEL TWA (mg/m³)<br>OEL TWA (ppm)   | 3 mg/m <sup>3</sup><br>2 ppm  |  |

#### 8.2. Appropriate engineering controls

: Ensure good ventilation of the work station.

Appropriate engineering controls

: Avoid release to the environment.

Safety Data Sheet

| 8.3. Individual protection measures, si  | uch as personal protective equipment (PPE)                                 |
|--|--|
| Hand protection  | : Protective gloves  |
|  |  |
| Eye protection   | : Safety glasses (EN166)   |
| Skin and body protection   | : Wear suitable protective clothing  |
| Respiratory protection   | : In case of insufficient ventilation, wear suitable respiratory equipment |
| Personal protective equipment symbol(s):                                       |  |
|  |  |
| 8.4. Exposure limit values for the othe<br>No additional information available | r components   |
| SECTION 9: Physical and chemical   |  |
| 9.1. Information on basic physical and   |  |
| Physical state   | : Liquid   |
| Appearance   | : Translucent.   |
| Colour   | : Colourless.  |
| Odour  | : No data available  |
| Odour threshold  | : No data available  |
| pH   | : No data available  |
| pH solution  | : No data available  |
| Relative evaporation rate (butylacetate=1)                                     | : No data available  |
| Relative evaporation rate (ether=1)  | : No data available  |
| Melting point  | : Not applicable   |
| Freezing point   | : No data available  |
| Boiling point  | : No data available  |
| Flash point  | : No data available  |
| Auto-ignition temperature  | : No data available  |
| Decomposition temperature  | : No data available  |
| Flammability (solid, gas)  | : Not applicable   |
| Vapour pressure  | : No data available  |
| Vapour pressure at 50 °C   | : No data available  |
| Relative vapour density at 20 °C   | : No data available  |
| Relative density   | : No data available  |
| Relative density of saturated gas/air mixture                                  | : No data available<br>: No data available                                 |
| Density<br>Relative gas density  | : No data available  |
|  | : No data available  |
| Solubility<br>Partition coefficient n-octanol/water (Log Pow)                  | : No data available  |
| Partition coefficient n-octanol/water (Log Fow)                                |  |
| Viscosity, kinematic   | : No data available  |
| Viscosity, dynamic   | : No data available  |
| Explosive properties   | : No data available  |
| Oxidising properties   | : No data available  |
| Explosive limits   | : No data available  |
| Lower explosive limit (LEL)  | : No data available  |
| Upper explosive limit (UEL)  | : No data available  |
|  |  |

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| cording to SANS 10234:2008 and SANS 11014:2010              |   |  |  |
|---|---|--|--|
| 0.2. Chemical stability                                     |   |  |  |
| table under normal conditions.                              |   |  |  |
| 0.3. Possibility of hazardous reactions                     |   |  |  |
| No dangerous reactions known under normal con               | lo dangerous reactions known under normal conditions of use.  |  |  |
| 10.4. Conditions to avoid                                   |   |  |  |
| Avoid contact with hot surfaces. Heat. No flames,           | no sparks. Eliminate all sources of ignition.   |  |  |
| 10.5. Incompatible materials                                |   |  |  |
| No additional information available                         |   |  |  |
| <b>10.6.</b> Hazardous decomposition products               |   |  |  |
| Under normal conditions of storage and use, haza            | rdous decomposition products should not be produced.  |  |  |
| <b>SECTION 11: Toxicological information</b>                | on  |  |  |
|   |   |  |  |
| 11.1. Information on toxicological effects                  |   |  |  |
| Acute toxicity (oral)                                       | : May be harmful if swallowed.  |  |  |
| Acute toxicity (dermal)                                     | : Not classified  |  |  |
| Acute toxicity (inhalation)                                 | : Not classified  |  |  |
| ATE ZA (oral)   | 2702.703 mg/kg bodyweight   |  |  |
| disodium hydrogenorthophosphate (7558-79                    |   |  |  |
| LD50 oral rat   | > 2000 mg/kg bodyweight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat,   |  |  |
|   | Female, Experimental value, Oral, 14 day(s))  |  |  |
| LD50 dermal rat   | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female,<br>Experimental value, Dermal, 14 day(s))   |  |  |
| LD50 dermal   | <   |  |  |
| Monosodium phosphate (7558-80-7)                            |   |  |  |
| LD50 oral rat   | <ul> <li>&gt; 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420<br/>(Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity<br/>- Fixed Dose Procedure)</li> </ul>  |  |  |
| LD50 dermal rat   | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal<br>Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: EU Method<br>B.3 (Acute Toxicity (Dermal))   |  |  |
| LC50 inhalation rat (mg/l)                                  | > 0.83 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity), Guideline:<br>other:U.S. Environmental Protection Agency Toxic Substances Health Effects Test Guidelines,<br>October 1984 (PB82-232984) Acute Inhalation Toxicity Study, Guideline: OECD Guideline 403<br>(Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline:<br>other:FMC Acute Inhalation Toxicity Protocol Number 27 |  |  |
| Skin corrosion/irritation                                   | : Causes skin irritation.   |  |  |
|   |   |  |  |
| Serious eye damage/irritation                               | <ul> <li>Causes serious eye damage.</li> <li>May cause an allergic skin reaction.</li> </ul>  |  |  |
| Respiratory or skin sensitisation<br>Germ cell mutagenicity |   |  |  |
|   | : Suspected of causing genetic defects.   |  |  |
| Carcinogenicity   | : May cause cancer.   |  |  |
| Reproductive toxicity                                       | : Not classified  |  |  |
| STOT-single exposure  | : Not classified  |  |  |
| STOT-repeated exposure                                      | : Not classified  |  |  |
| Monosodium phosphate (7558-80-7)                            |   |  |  |
| NOAEL (subchronic, oral, animal/male, 90 days)              | 322.88 mg/kg bodyweight Animal: dog, Animal sex: male   |  |  |
| NOAEL (subchronic, oral, animal/female, 90 days)            | 492.77 mg/kg bodyweight Animal: dog, Animal sex: female   |  |  |
| Aspiration hazard   | : Not classified  |  |  |

| <b>SECTION 12: Ecological information</b>                     |   |
|---|---|
| 12.1. Toxicity  |   |
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-<br>term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-<br>term (chronic) | : Not classified  |
|   |   |

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| disodium hydrogenorthophosphate (7558-79-4) |  |  |
|---|--|--|
| LC50 fish 1                                 | > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static<br>system, Fresh water, Experimental value, GLP)   |  |
| EC50 Daphnia 1                              | > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)     |  |
| ErC50 (algae)                               | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static<br>system, Fresh water, Experimental value, GLP) |  |
| Monosodium phosphate (7558-80-7)            |  |  |
| LC50 fish 1                                 | > 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |  |
| EC50 Daphnia 1                              | > 100 mg/l Test organisms (species): Daphnia magna   |  |
| EC50 72h algae (1)                          | <ul> <li>&gt; 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name:<br/>Scenedesmus subspicatus)</li> </ul>           |  |
| 12.2. Persistence and degradability         |  |  |
| FORMALIN 10%, PHOSPHATE BUFFER              | ED, NEUTRAL  |  |
| Persistence and degradability               | No additional information available  |  |
| formaldehyde (50-00-0)                      |  |  |
| Persistence and degradability               | Readily biodegradable in water.  |  |
| disodium hydrogenorthophosphate (75         | 58-79-4)   |  |
| Persistence and degradability               | Biodegradability: not applicable.  |  |
| Chemical oxygen demand (COD)                | Not applicable   |  |
| ThOD  | Not applicable   |  |
| BOD (% of ThOD)                             | Not applicable   |  |
| 12.3. Bioaccumulative potential             |  |  |
| FORMALIN 10%, PHOSPHATE BUFFER              | ED, NEUTRAL  |  |
| Bioaccumulative potential                   | No additional information available  |  |
| formaldehyde (50-00-0)                      |  |  |
| Bioaccumulative potential                   | Low potential for bioaccumulation (BCF < 500).   |  |
| disodium hydrogenorthophosphate (75         | 58-79-4)   |  |
| Bioaccumulative potential                   | Not bioaccumulative.   |  |
| 12.4. Mobility in soil                      |  |  |
| FORMALIN 10%, PHOSPHATE BUFFER              | ED, NEUTRAL  |  |
| Mobility in soil                            | No additional information available  |  |
| formaldehyde (50-00-0)                      |  |  |
| Ecology - soil                              | Contains component(s) with potential for mobility in the soil. Toxic to flora.   |  |
| disodium hydrogenorthophosphate (75         | 58-79-4)   |  |
| Ecology - soil                              | No (test)data on mobility of the substance available.  |  |
| 12.5. Other adverse effects                 |  |  |
| Ozone                                       | : Not classified   |  |
| Other adverse effects                       | : No additional information available  |  |
|   |  |  |

| SECTI    | ON 13: Disposal ( | considerations  |
|----------|-------------------|---|
| 13.1.    | Disposal methods  |   |
| Waste tr | eatment methods   | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |

## **SECTION 14: Transport information**

In accordance with SANS / IMDG / IATA

| SANS                             | IMDG           | ΙΑΤΑ           |
|----------------------------------|----------------|----------------|
| 14.1. UN number                  |                |                |
| Not regulated for transport      |                |                |
| 14.2. Proper Shipping Name       |                |                |
| Not applicable                   | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) |                |                |
| Not applicable                   | Not applicable | Not applicable |
| Not applicable                   | Not applicable | Not applicable |
| 14.4. Packing group              |                |                |
| Not applicable                   | Not applicable | Not applicable |
|                                  |                |                |

### Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| erous for the environment : No Dangerous for the environme<br>o supplementary information available   | ent : No   |
|---|--|
|   | ent : No   |
| o supplementary information available   |  |
| o supplementary information available   |  |
|   |  |
|   |  |
|   |  |
|   |  |
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|   |  |
|   |  |
|   |  |
|   |  |
| MAPPOL 73/78 and the IPC Code   |  |
|   |  |
|   |  |
|   |  |
| regulations specific for the product  |  |
| NS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:201<br>232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1<br>ad Traffic Act 93 of 1996. |  |
|   |  |
| 02/2020   |  |
| 02/2025   |  |
|   | NS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:201<br>232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 7<br>ad Traffic Act 93 of 1996.<br>02/2020 |

| H227 | Combustible liquid                       |
|------|--|
| H301 | Toxic if swallowed.                      |
| H303 | May be harmful if swallowed              |
| H311 | Toxic in contact with skin.              |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |
| H317 | May cause an allergic skin reaction.     |
| H318 | Causes serious eye damage.               |
| H331 | Toxic if inhaled.                        |
| H341 | Suspected of causing genetic defects.    |
| H350 | May cause cancer.                        |

#### SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.