



## 2-HYDROXYETHYL METHACRYLATE

### Technical Data Sheet (TDS)

|                                     |                                                                                                                                                                                                                            |                                         |                                               |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------|
| Product Name                        | 2-HYDROXYETHYL METHACRYLATE                                                                                                                                                                                                |                                         |                                               |
| Product Alias                       | 2-HYDROXYETHYL 2-METHYLPROP-2-ENOATE                                                                                                                                                                                       |                                         |                                               |
| Application                         | Mainly used in heat curing acrylic coatings, light curing acrylic coatings, photographic coatings, water-soluble electroplating coatings, adhesives, textile processing agents, ester processing and prepolymer modifiers. |                                         |                                               |
| CAS No.                             | 868-77-9                                                                                                                                                                                                                   | HS CODE                                 | 29161400.90                                   |
| EC No.                              | 212-782-2                                                                                                                                                                                                                  |                                         |                                               |
| Molecular Weight                    | 130.14                                                                                                                                                                                                                     | Molecular Formula                       | C <sub>6</sub> H <sub>10</sub> O <sub>3</sub> |
| Monoester (W.%)                     | ≥98%                                                                                                                                                                                                                       | Purity (W.%)                            | ≥99%                                          |
| Water (W.%)                         | ≤ 0.1                                                                                                                                                                                                                      | Acid (W.%)                              | ≤ 0.1                                         |
| Inhibitor<br>(MEHQ, CAS#: 150-76-5) | 180-220 ppm                                                                                                                                                                                                                | Color (Hazen)                           | ≤ 10                                          |
| Appearance                          | Colorless clear transparent liquid, no mechanical impurities.                                                                                                                                                              |                                         |                                               |
| Density (g/m <sup>3</sup> )         | 1.072                                                                                                                                                                                                                      | Vapor Density (g/m <sup>3</sup> )       | 5                                             |
| Octanol/water partition coefficient | 0.47                                                                                                                                                                                                                       | Refraction index (20°C)                 | 1.449                                         |
| Boiling Point                       | 87°C(6.66kPa)                                                                                                                                                                                                              | Melting point (°C)                      | -12                                           |
| Flash Point (°C)                    | 104 (open)<br>96 (close)                                                                                                                                                                                                   | Spontaneous combustion temperature (°C) | ≥300                                          |
| Vapor pressure (kPa)                | 0.12                                                                                                                                                                                                                       | Decomposition temperature (°C)          | ≥300                                          |
| Evaporation rate (kg/S)             | ≤0.01                                                                                                                                                                                                                      | Viscosity mPa.s (20°C)                  | 6.8                                           |
| Specific heat cal/g°C               | 0.47                                                                                                                                                                                                                       | Polymerization heat kcal/mol            | 11.9                                          |
| Solubility % (underwater)           | /                                                                                                                                                                                                                          | Solubility %<br>(water in material)     | /                                             |
| Explosive range VOL% in air         | 3.3—                                                                                                                                                                                                                       | Toxicity (rodent)LD50mg/kg              | 8700                                          |
| Solubility                          | Soluble in organic solvents.                                                                                                                                                                                               |                                         |                                               |
| Prohibition on disposable material  | Strong redox agents, acids, peroxides, heavy metal salts.                                                                                                                                                                  |                                         |                                               |
| Packing                             | Polyethylene plastic drums, IBC, Teflon lined iron drums, ISO TANK tanks.                                                                                                                                                  |                                         |                                               |

### DECHEM GROUP LTD

Address: No.9 Xinyuan Road, Tancheng County Economic Development Zone, Linyi City, Shandong Province, China  
Zip code: 276100  
TEL: +8615165538198  
Email: sales.samsun@dechemgroup.com