**Masimo Chemicals South Africa (Pty) Ltd**

**Technical Data Sheet**

**MasimoSol SBP 40-65**

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|---|---|
| **Product Category** | Special Boiling Point Solvents |
| **CAS Registry Number** | 64742-49-0 |
| **EINECS Number** | 265-151-9 |
| **Product Description** | MasimoSol SBP 40/65 LNH is a C5-C6 paraffinic hydrocarbon solvent with a high volatility. Being made from hydrogenated feedstock, its aromatics and olefins content is very low, and contains less than 2% n-hexane. |

**Typical Properties**

| Properties | Unit | Method | Value |
|---|---|---|---|
| Water | % m/m | ASTM D1364 | < 0.01 |
| Density @15 ºC | kg/L | ASTM D4052 | 0.647 |
| Coefficient of Cubic Expansion @ 20 ºC | $10^{-4}$/ºC | Calculated | 15 |
| Refractive Index 20 ºC | - | ASTM D1218 | 1.366 |
| Colour | Saybolt | ASTM D156 | +30 |
| Bromine Index | mg Br/100g | ASTM D1492 | 25 |
| Copper Corrosion (1hr @ 100 ºC) | - | ASTM D130 | 1 |
| Doctor Test | - | ASTM D4952 | Negative |
| Non Volatile Matter | mg/100ml | ASTM D1353 | < 1 |
| Distillation, Initial Boiling Point | ºC | ASTM D1078 | 44 |
| Distillation, Dry Point | ºC | ASTM D1078 | 63 |
| Relative Evaporation Rate (nB ∪ Ac = 1) | - | ASTM D3539 | 10.7 |
| Relative Evaporation Rate (Ether=1) | - | DIN 53170 | 1.0 |
| Antoine Constant A # | kPa, ºC | - | 6.80590 |
| Antoine Constant B # | kPa, ºC | - | 1641.22 |
| Antoine Constant C # | kPa, ºC | - | 296.300 |
| Antoine Constants: Temperature range | ºC | - | -2 to + 50 |
| Vapor Pressure @ 0 ºC | kPa | Calculated | 19 |

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|---|---|---|---|
| Vapor Pressure @ 20 ºC | kPa | Calculated | 42 |
| Saturated Vapor Concentration @ 20 ºC | g/m$^3$ | Calculated | 1302 |
| Paraffins | % m/m | GC | 98 |
| Naphthenes | % m/m | GC | 2 |
| Aromatics | mg/kg | SMS 2728 | < 5 |
| Benzene | mg/kg | GC | < 3 |
| n-Hexane | % m/m | GC | 2 |
| Sulfur | mg/kg | ISO 20846 | < 0.5 |
| Flash Point, (Abel) | ºC | IP170 | < -50 |
| Lower Explosion Limit in Air | % v/v | | 1.1 |
| Upper Explosion Limit in Air | % v/v | | 7.5 |
| Auto Ignition Temperature | ºC | ASTM E659 | 392 |
| Electrical Conductivity @ 20 ºC | pS/m | ASTM D4308 | < 1 |
| Aniline Point | ºC | ASTM D611 | 71 |
| Kauri-Butanol Value | - | ASTM D1133 | 30 |
| Pour Point | ºC | ASTM D97 | < -50 |
| Viscosity @ 25 ºC | mm $^2$/s | ASTM D445 | 0.40 |
| Surface Tension @ 20 ºC | mN/m | Du Nouy ring | 17 |
| Thermal Conductivity @ 20 ºC | W/m/ ºC | | 0.11 |
| Hildebrand Solubility Parameter | (cal/cm$^3$)$^{1/2}$ | - | 7.1 |
| Hydrogen Bonding Index | - | - | 0 |
| Fractional Polarity | - | - | 0 |
| Heat of Vaporization at, $T_{boil}$ | kJ/kg | - | 340 |
| Heat of Combustion (Net) @t 25 ºC | kJ/kg | - | 46000 |
| Specific Heat @ 20 ºC | kJ/kg/ºC | - | 2.3 |
| Molecular Weight | g/mol | Calculated | 79 |

(#) In the Antoine temperature range, the vapor pressure P (kPa) at temperature T(ºC) can be calculated by means of the Antoine equation: log P = A – B/(T+C).

**Test Methods**

Copies of copyrighted test methods can be obtained from the issuing organisations:

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|---|---|
| American Society of Testing and Materials (ASTM) | www.astm.org |
| International Organization for Standardization (ISO) | www.iso.org |
| Deutsches Institut für Normung (DIN) | www.din.de |

MaximoSol methods are issued by Maximo Chemicals. Requests for copies of SMS can be made through Masimo Chemicals South Africa (Pty) Ltd.

N.B: For routine quality control local test methods may be applied. Such methods have been validated against those mentioned in this datasheet.

## Quality

MasimoSol SBP 40/65 does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.

## Hazard Information

For detailed Hazard Information please refer to the Safety Data Sheet on https://masimochem.com/.

## Storage Handling

Provided proper storage and handling precautions are taken we would expect MasimoSol SBP 40/65 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Safety Data Sheet on https://masimochem.com/.

## Warranty/Disclaimer

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