

SOLVON® IP

U.S. PATENT 6,660,701



DESCRIPTION CLEANING COMPATIBILITY

Solvon® IP is a high purity solvent formulation that performs better than any other nPB formulation where ionic residue is present. It is designed to achieve exceptional results without compromising chemical stability and cost targets. Solvon® IP has the same characteristics and similar physical properties of other halogenated solvents, such as 1,1,1-trichloroethane and trichloroethylene but without the adverse environmental hazards. In most applications, switching to Solvon® IP is as simple as replacing your old solvent, end of story.

- **Non-Regulated**
- **Non-Hazardous Waste**
- **SNAP approved by the EPA.**
- **Non-Flammable**
- **Near-zero ozone depleting potential**

Perfect for removing:

- Oils**
- Hydraulic Fluids**
- Greases**
- Particulates**
- Polishing Compounds**
- Waxes**
- Lubricants**
- Release Agents**
- Buffing Compounds**
- Fluxes: RA, RMA, and no-clean**

Various metals have been tested for compatibility with Solvon® IP, in accordance with Mil-T-81533A. The metal corrosion test - 24 hours exposure to boiling solvent, has yielded no sign of corrosion on the following metals:

- ✓ **Aluminum**
- ✓ **Copper**
- ✓ **Monel**
- ✓ **Zinc**
- ✓ **Brass**
- ✓ **Inconel**
- ✓ **Stainless Steel**
- ✓ **Carbon steel**
- ✓ **Magnesium**
- ✓ **Titanium**

APPLICATIONS PHYSICAL PROPERTIES

Solvon® IP is widely used in various applications such as:

- ✓ **Metal Cleaning**
- ✓ **Printed Circuit Board Cleaning**
- ✓ **Carbon Removal**
- ✓ **Drying Agent**
- ✓ **Precision Instruments Cleaning**
- ✓ **Lubricant Carrier**
- ✓ **Precision Coating**

The patented stabilizer of Solvon® IP gives it the highest purity-to-mileage ratio in its class. Solvon® IP will withstand breaking down when other solvents give up, including other nPB formulas.

An evaluation and comparison between Solvon® IP and other common solvents:

| | Solvon® IP | 1,1,1-TCA | TCE | MeCL | HCFC-141b |
|-------------------------|------------|-----------|----------|-----------|-----------|
| Boiling Point °C | 68 | 74 | 87 | 40 | 32 |
| Specific Gravity, 25°C | 1.23 | 1.32 | 1.46 | 1.33 | 1.24 |
| Viscosity, 25°C, cps | 0.49 | 0.79 | 0.54 | 0.43 | 0.43 |
| S. Tension dy/cm, 20°C | 24.2 | 25.6 | 26.4 | 28.2 | 19.3 |
| Vapor Pressure, 20°C | 109.0 | 100 | 57.8 | 349 | 518 |
| Specific Heat, 25°C | 0.27 | 0.25 | 0.22 | 0.28 | --- |
| Latent Heat, cal/gm | 58.8 | 57.5 | 57.2 | 78.7 | 52.3 |
| Solubility in Water, w% | 0.27 | 0.07 | 0.11 | 0.14 | 0.18 |
| Flash Point, TCC | None | None | None | None | None |
| Flammability limits, v% | 4-7.8 | 7.4-16.5 | 8.3-12.5 | 14.6-21.8 | 7.6-17.7 |
| Kauri Butanol Value | >150 | 124 | 129 | 136 | 56 |
| Life Span in air | 2 weeks | 5 years | 1 year | 1 year | 10 years |
| ODP | 0.008 | 0.1 | 0 | | 0.1 |
| PEL, ppm | 25* | 350 | 50 | 25 | 500 |

*(mfg recommended), based on study by independent sources.

TECHNICAL DATA SHEET

SAFETY

- Solvon® IP is **not a reportable chemical** under SARA 313.
- Solvon® IP is **not regulated as a hazardous waste** under RCRA.
- Solvon® IP is **not regulated as hazardous air pollutant** under NESHAP.
- Solvon® IP is still considered VOC and **must be used according to VOC regulations**.

For complete safety information, please refer to Solvon® IP Safety Data Sheet.

PACKAGING

Solvon® IP is available in 550 lb. drums and 50 lb. pails. Other packaging available upon request.

The product should be stored in the original containers in a cool, dry and ventilated place. Do not expose to temperatures higher than 120°F.

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