



Better Chemistry. **Better Business.**

Hubtron IP

Product Code: 4361026
Revised Date: 01/20/2011

Hubtron IP

DESCRIPTION

Hubtron IP is a powerful solvent, azeotrope-like blend, for cleaning and degreasing, meets or exceeds the requirements of ASTM-D-6368. It is milder than HUBTRON PB and yet has the same characteristics and similar physical properties as other halogenated solvents such as 1,1,1,-trichloroethane and trichloroethylene.

Hubtron IP has no flash point and has a low ozone depleting potential. It is essentially 1,1,1-trichloroethane without the adverse effect on the environment. **Hubtron IP** can be used for vapor degreasing and rapid drying.

PHYSICAL PROPERTIES

An evaluation and comparison between **Hubtron IP** and other common solvents:

	<i>HUBTRON IP</i>	1,1,1-TCA	TCE	MeCl ₂	HCFC-141b
Boiling Point °C	68	74	87	40	32
Specific Gravity, 25°C	1.24	1.32	1.46	1.33	1.24
Viscosity, 25°C, cps	0.49	0.79	.054	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	125	124	129	136	56
Life Span in Air	2 weeks	5 years	1 year	1 year	10 years
ODP	0.02	0.1	0		0.1
ACGIH TLV, ppm	10	350	50	25	500



Product Bulletin

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APPLICATIONS

Hubtron IP can be used in various applications such as: Cleaner-Degreaser, Printed Circuit Boards cleaning, Precision cleaning, Metal cleaning, Carbon removal, Automotive parts cleaning, Drying agent.

Hubtron IP can be utilized in existing vapor degreasing drying equipment after some adjustments. It can be used to replace 1,1,1-TCA, TCE, HCFC-141b and other cleaning solvents.

COMPATIBILITY

Various metals have been tested for compatibility with **Hubtron IP**. The metal corrosion test – 24 hours exposure to boiling solvent, has yielded no sign of corrosion on the following metals: Aluminum, Brass, Carbon steel, Copper, Inconel, Magnesium, Monel, Stainless Steel, Titanium and Zinc.

SAFETY

HUBTRON IP is not a reportable chemical under SARA 313.
HUBTRON IP is not regulated as a hazardous waste under RCRA.
HUBTRON IP is not regulated as hazardous air pollutant under NESHAP.
HUBTRON IP is still considered as VOC and must be used according the regulations.
Refer to **HUBTRON IP** Material Safety Data Sheet.

PACKAGING

Hubtron IP is available in 550 Lb. Drums and 50 Lb. Pails. Smaller size 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.

WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.