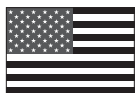


## Transportation Information

UN Number: 2199



Shipping Name	Phosphine	Phosphine	Phosphine
Hazard Class	2.3 (2.1)	2.3 (2.1)	2.3
Label	Toxic Gas, Flammable Gas	Toxic Gas, Flammable Gas	Toxic Gas, Flammable Gas

## (M)SDS Reference

P-4643

## CAS Number

7803 - 51 - 2

## General Description

Colorless, highly toxic, flammable gas with a disagreeable, garlic-like odor.

Product/Grade	Purity	Part Number	Cylinder	H <sub>2</sub> O	N <sub>2</sub>	O <sub>2</sub> + Ar	C2 - C5 <sup>(1)</sup>	CO <sub>2</sub>	CO	CH <sub>4</sub>	AsH <sub>3</sub>
Semiconductor, 6.0	99.9999%	PH 6.0SP	K	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Semiconductor, 5.7	99.9997%	PH 5.7SP	K, UpTime®	1	1	0.5	0.1	0.1	0.1	0.1	0.1

Concentrations given are ppm by volume unless otherwise specified. Maximum ppm unless otherwise noted.

**Note:** Phosphine is available in mixtures with balance gases of Argon, Helium, Hydrogen and Nitrogen. Please contact your Praxair representative to discuss your mixture requirements.

<sup>(1)</sup> Defined as Ethane (C<sub>2</sub>H<sub>6</sub>), Propane (C<sub>3</sub>H<sub>8</sub>), Butane (C<sub>4</sub>H<sub>10</sub>) and Pentane (C<sub>5</sub>H<sub>12</sub>).

## Cylinders

Cylinder Type	Style	Size in (cm)	Connection CGA/DISS	Pressure psig (bar)	Volume lb (kg)	Gross Weight lb (kg)
K	High Pressure Steel	51 x 9 (129.5 x 22.9)	350/632	593 (41)	27 (12.25)	160 (73)
UpTime	Sub-Atmospheric	See page D•146 for all sub-atmospheric ion implant packaging.				

## Equipment Recommendations



UltraPurge™ 400 Gas Cabinet Series  
(see page E•306)



See Section D for additional information on Praxair's Semiconductor product line (pages D•143 - D•148).

See our complete line of gas delivery systems in Section E, including gas cabinets, process panels, and controllers (pages E•304 - E•309).