TABLE A.4–3.—*Livermore Site Chemical Quantities in 2002*

Material	2002 Report Year[a,b]		Unit
	Maximum Quantity	Average Quantity	
Beryllium oxide	500	350	lb
Boron	2,600	500	lb
Bright Plating solution	130	55	gal
Brulin MP 1793	200	100	gal
BSP Captor Solution	170	55	gal
Bulls Eye 1-2-3 Primer/Sealer	750	55	gal
Butyl alcohol (n-Butanol)	510	55	gal
Calcium chloride	3,200	500	lb
Calcium sulfate	1,300	500	lb
Carbon, activated	800	500	lb
Carbon dioxide	176,000	124,000	ft^3
Carbon monoxide	4,000	1,300	ft^3
Celite 535	2,000	950	lb
Cement, Kast-o-lite	1,300	500	lb
ChemTreat BL-1253	1,200	1,200	gal
ChemTreat BL-1302	600	600	gal
ChemTreat BL-1543	110	55	gal
ChemTreat BL-1776	1,000	140	gal
ChemTreat BL-1821	700	55	gal
ChemTreat CL-1467	700	55	gal
ChemTreat CL-2111	800	300	gal
ChemTreat CT9001-Antifoulant	55	55	gal
Chlorine	150	100	lb
Chloroform	110	55	lb
Chrome or Chromium	4,700	1,500	lb
Chromium (III) chloride	12	1	lb
Citric acid, anhydrous	1,600	400	lb
Cobalt	16,500	14,000	lb
Concresive Adhesive, Part A/B	330	55	gal
Copper sulfate, crystals & solution	1,100	500	lb
Cutting fluid, Aluminum A-9	100	90	gal
Cutting Fluid, Cool Tool (I & II)	390	55	gal
Cyanuric acid	2,500	500	lb
Dascool 2227	500	55	gal
DDO-19, Lubricating oil	500	55	gal
Delvac Motor oil	300	55	gal
DESMODUR	110	55	gal
Detergent, ND 150	300	55	gal
Diesel	30,000	10,000	gal
Dimethyl sulfoxide	220	55	gal
4,4'-Diphenylmethane diisocyanate	1,000	500	lb
DowTherm SR-1 30 Heat Transfer Fluid	110	55	gal
ELNIC 100 C-5	250	55	gal
ELNIC 100 RP-1	60	60	gal
ELNIC 100 RP-2	150	110	gal
Epolene Wax, Polyethylene, oxidized	110	55	gal
Ethyl alcohol	2,000	1,500	gal

TABLE A.4–3.—*Livermore Site Chemical Quantities in 2002 (continued)*

Material	2002 Report Year[a,b] Maximum Quantity	2002 Report Year[a,b] Average Quantity	Unit
Ethylene, compressed	5,700	1,900	ft^3
Ethylene glycol	500	110	gal
Ethyl silicate	150	55	gal
Ferric chloride, Iron chloride(III)	1,400	500	lb
Ferric sulfate	3,500	700	lb
Fertilizer, Pro-Turf 25-3-10	11,000	5,500	gal
Freon 11 (Trichlorofluoromethane)	10,000	5,000	lb
Freon 12 (Dichlorodifluoromethane)	6,300	4,000	lb
Freon 14 (Tetrafluoromethane)	2,500	500	ft^3
Freon 22 (Chlorodifluoromethane)	9,000	5,000	lb
Freon 113 (1,1,2-Trichloro-1,2,2-trifluoroethane)	17,000	5,000	ft^3
Gasoline	24,000	24,000	gal
Glass Cleaner, variety	2,300	200	gal
Glycerine	110	55	gal
Hafnium oxide	4,700	4,500	lb
Halocarbon 23	400	200	ft^3
Halon 1301 (Bromotrifluoromethane)	2,000	1,600	lb
Helium	5,000,000	300,000	ft^3
Herbicide, Ronstar	2,000	700	lb
Herbicide, Roundup	220	40	gal
Hexane	250	160	gal
Hydrochloric acid	600	400	gal
Hydrofluoric acid	1,500	850	lb
Hydrogen, compressed	1,500,000	50,000	ft^3
Hydrogen peroxide<52%	350	55	gal
Insulating Oil, Inhibiting	1,800	1,200	gal
Isopropyl alcohol	650	550	gal
Joint Compound, All purpose	45,000	12,100	lb
Kerosene (Naphtha Petroleum)	300	55	gal
Kodak Fixer & Replenisher	650	250	gal
Krypton, compressed	1,600	1,100	ft^3
Lead Bricks or ingots	950,000	950,000	lb
Lithium Grease	110	55	gal
Lithium Hydride	4,000	4,000	lb
Lubricating Oil	500	300	gal
Macro Brite L-7	220	110	gal
Magnesium chloride	6,000	500	lb
Manganese	3,500	3,000	lb
Mastic Patch adhesive, variety	400	55	gal
Metex L-5B	220	55	gal
Methane	100,000	30,000	ft^3
Methyl alcohol	1,800	500	gal
Methylene chloride	2,000	55	gal
Methyl ethyl ketone	400	55	gal
Mineral dust, Aquaset	10,000	4,500	lb
Mineral oil	2,000	55	gal
Mineral spirits	400	55	gal

TABLE A.4–3.—*Livermore Site Chemical Quantities in 2002 (continued)*

Material	2002 Report Year[a,b] Maximum Quantity	2002 Report Year[a,b] Average Quantity	Unit
Modified Bitumen adhesive	350	200	gal
Neodymium oxide	7,000	1,350	lb
Neon, compressed	750,000	500,000	ft^3
Nickel	1,500	500	lb
Nickel chloride	80	70	gal
Nickel sulfate	220	110	gal
Nitric acid	5,000	1,800	lb
Nitric oxide	1,000	500	lb
Nitrogen, compressed (Liquified, gaseous)	38,000,000	18,000,000	ft^3
Nitrous oxide	4,000	1,200	ft^3
Oakite (Liqui-det)	80	55	gal
Oil, Diala AX	2,200	1,050	gal
Oil, DTE-24	700	440	gal
Oil, DTE-25	450	355	gal
Oil DTE-26	2,000	400	gal
Oil, DTE, extra heavy	500	165	gal
Oil, DTE heavy	850	55	gal
Oil, DTE Medium	220	55	gal
Oil, Spindle	700	355	gal
Oil, Tellus, variety	275	55	gal
Oil, Vactra, variety	500	400	gal
Oil, Vacuum Pump fluid, variety	1,500	55	gal
Oil, Waste	2,500	1,000	gal
Oxalic acid	700	500	lb
Oxygen, compressed	870,000	75,000	ft^3
OzzyJuice SW3, Cleaner/Degreaser	300	55	gal
Paint (variety)	700,000	320,296	lb
Perchloroethylene (Tetrachloroethylene)	250	55	gal
Phosphoric acid	3,600	1,000	lb
Potassium chloride	3,500	1,200	lb
Potassium hydroxide	15,000	400	lb
Potassium Phosphate, Monobasic	10,000	2,000	lb
Potassium silicate	1,100	500	lb
Power Plus, Cleaner & Degreaser	110	55	gal
Printing Ink, variety	1,000	850	lb
Propane	45,000	1,000	gal
Refrigerant, 123 SUVA, (2,2-Dichloro-1,1,1-Trifluoroethane)	35,000	1,500	lb
Refrigerant 406A	720	500	lb
Rough Rider Emulsion Degreaser	110	55	gal
Rubinate fluid	110	55	gal
Sanding Sealer	200	90	gal
sec-Butanol	130	122	gal
Shur-Stik Wall Covering Adhesive	110	55	gal
Silane, compressed	2,100	200	ft^3
Silicon carbide	3,200	500	lb

TABLE A.4–3.—*Livermore Site Chemical Quantities in 2002 (continued)*

Material	2002 Report Year[a,b]		Unit
	Maximum Quantity	Average Quantity	
Silicone Transformer Fluid/Dow	700	165	gal
Simple Green Degreaser	140	55	gal
Sodium bicarbonate	3,600	500	lb
Sodium chloride	3,200	800	lb
Sodium cyanide	250	100	lb
Sodium hydroxide	25,500	14,000	lb
Sodium hypochlorite (Bleach)	12,000	1,000	gal
Sodium nitrate	1,500	350	lb
Solvent AZ-EBR	165	55	gal
Spill clean-up kit, Acids	1,600	500	lb
Spill clean-up kit, Caustic	1,000	500	lb
Spill clean-up kit, Solvent	710	500	lb
Strontium phosphate	1,400	350	lb
Sulfur hexafluoride, compressed	25,000	10,000	ft^3
Sulfuric acid	11,000	4,500	lb
Super Dropout	1,590	1,590	lb
Suva MP39 (R401A)	800	600	lb
Suva MP66 (R401B)	180	180	gal
Tantalum	75,000	20,000	lb
Tantalum oxide blend	17,000	8,500	lb
Thinner, Lacquer	3,000	500	gal
Toluene	480	300	gal
TPX	800	800	lb
Transmission fluid, Dexron II (ATF)	220	55	gal
Trichloroethylene	350	165	gal
Trim Clear	110	55	gal
Trim Sol, coolant	660	165	gal
Tungsten	2,500	500	lb
Voranol	110	55	gal
Wax, Floor	300	300	gal
Xenon, compressed	2,000	500	ft^3
ZEP Formula 50	110	55	gal

Source: LLNL 2002bg.
[a] Summary information. Numbers may be rounded.
[b] Estimates are snapshots in time. The information is provided to give the reader a degree of scale and is not (unless otherwise stated) a limit.
ft^3 = cubic feet; gal = gallons; lb = pounds.