

ENVIRONMENTAL POLICY AND MATERIALS GUIDE

Baxa Corporation supports environment-friendly manufacturing practices wherever practical. Raw materials are chosen for safety, durability and recyclability. Printed materials incorporate recycled paper and every effort is made during product design to minimize the environmental impact of components and packaging.

Ability to recycle may depend on intended reuse and tolerance of mixed materials. This listing is provided as a guide for recycling and is not intended as a drug compatibility reference. Check with your local recycling center for more information.

ExactaMed® Oral Dispensers O-Ring Design/Gray Piston Design

Barrel, Plunger Rod:	PP (polypropylene) - 5 / PP - 5
Plunger Seal:	Silicone / SBR (styrene, butadiene rubber)
Tip Caps:	HDPE (high-density polyethylene) - 2

ExactaMed Accessories

Universal Bottle Adapter:	TPE (thermoplastic elastomer)
AdaptaCap™	LDPE (low-density polyethylene) - 4
Bottle Well Tubing:	LDPE - 4
Bottle Well Valve:	EPDM (ethylene propylenediene terpolymer)
RapidFill™ Connector:	PP - 5
Tamper-Evident Oral Dispenser Tip Cap	
Cap:	PP - 5
Sleeve:	PS - 6

KwikVial™ Oral Liquid Containers

Vial:	HDPE - 2
Plug:	PP - 5
Tray, Filling Extension:	PVC (polyvinyl chloride) - 3

IV Accessories

Needles	
Hubs, Sheathes, Caps:	PP - 5
Cannula:	Stainless steel
Lubricant:	Silicone
Port Saver	
Cannula:	18G stainless steel
Septum:	Synthetic isoprene
Collar:	HDPE - 2
DiscPac™ Trays:	PP - 5
Tip Caps	
Luer:	TPE
Luer Lock (Red):	PP - 5
Catheter Cap:	ABS (acrylonitrile butadiene styrene) - 7
Self-Righting Tip Caps, Luer Lock:	TPE, PS - 6
Dispensing Pin	ABS - 7
Vent Cap:	PP - 5
Filter	Acrylic copolymer cast on a non-woven nylon support, non-DEHP
Sheath:	PVC - 3
Admix Dispensing Pin:	ABS GV (Glassfibre reinforced ABS)
Vent Cap:	HDPE - 2
Filter:	Acrylic copolymer case on a non-woven nylon support
Sheath:	PD, PE (polyethylene)
Bag Spike	
Spike:	Acrylic
Shield:	PE
Check Valve:	Acrylic, Silicone
Syringe Filters	
Housing:	Acrylic
Filter:	Hydrophilic polyethersulfone
RapidFill Connectors	
Body:	PP - 5
Cap:	ABS - 7
Oral Tip:	ABS - 7
Luer Lock-to-Catheter Tip Adapter	
Luer Lock-to-Urethra Tip Adapter:	PP - 5
Tamper-Evident Luer Lock Tip Cap	
Cap:	PP - 5
Sleeve:	PS - 6
Vial Adapters	
Body:	Polycarbonate
Cap:	ABS - 7

SmartSite®

Body:	Acrylic
Piston:	Silicone

Infusion Sets

Microbore and Smallbore	
Tubing:	PVC, non-DEHP
Connector, Male:	ABS
Connector, Female:	Rigid PVC
Y-site:	
Housing:	Rigid PVC
Injection Site:	Latex-free Silicone
T-site:	
Housing:	Rigid PVC
Injection Site:	Latex-free Silicone
Needleless Connector Housing:	Rigid PVC

ShrinkSafe™ Paralytic Identification Band

ID Band:	PVC
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Repeater™ Pump Tube Sets & Accessories

Inlet, Outlet Tubing:	PVC - 3
Rotor Tubing:	Silicone
Connectors (blue):	ABS - 7
End Spikes, Adapters:	PVC - 3, Polycarbonate
Filters	
Housing:	Acrylic multipolymer
Filter:	PES (polyethersulfone)
Oral Liquid and Gel Bag:	PVC - 3
Collection Bags:	Non-DEHP (phthalate-free) PVC - 3

MicroMacro™ Tube Sets & Accessories

12-Port Valve	
Body:	PETG - 7 (polyethylene glycol)
Core:	TPE, PP and Santoprene
Inlet Tubing Sets	
Tubing:	Non-DEHP PVC - 3
Spike:	ABS - 7
Connectors:	PVC - 3, PP - 5, TPE, or polycarbonate
Mixing Bags:	EVA - 3

Most Packaging Bags LDPE - 4

ExactaMix™ Tube Sets & Accessories

24-Port Valve	
Body:	Polycarbonate
Core:	Santoprene
Inlet Tubing Sets	
Tubing:	Non-DEHP PVC - 3
Syringe Inlet Connector:	Rigid PVC
Outlet Connector:	TPE
Mixing Bags:	EVA (ethyl vinyl acetate) - 3



RapidFill™ Automated Syringe Filler Accessories

Syringe Strip	
Luer Tip Cap:	TPE
Syringe Barrel:	PP
Syringe Plunger:	PP
Syringe Plunger Tip:	TPE
Lubricant:	Silicone
Clear Film Webbing:	PP
White Label Webbing:	PP

Tube Set

Spike:	ABS
Tubing:	Non-DEHP PVC
Check Valve Housing:	Polycarbonate
Check Valve:	Silicone
Air Detector Adaptor:	Polycarbonate
Cap & Fill Arm:	ABS

Society of the Plastics Industry (SPI) Product Codes

Spi Code	Type Of Resin	
1	PET - Polyethylene terephthalate	 PET HDPE PVC LDPE
2	HDPE - High-density polyethylene	
3	PVC - Polyvinyl chloride	
4	LDPE - Low-density polyethylene	
5	PP - Polypropylene	 PP PS OTHER
6	PS - Polystyrene	
7	Other	

COMMON MEDICAL ABBREVIATIONS ¹

The following listed is offered as a reference tool. **Users should be aware that the Institute for Safe Medication Practice (ISMP) recommends against the use of abbreviations for orders and drug names, as they are frequently misinterpreted.** For a list of abbreviations and dose designations considered dangerous, visit the ISMP website at <http://www.ismp.org/msaarticles/specialissuetable.html>.

Abbrev.	Word	Meaning
—, aa	ana	of each
a.c.	ante cibum	before meals or food
ad	ad	to, up to
ad lib.	ad libitum	at pleasure
A.M.	ante meridiem	morning
amp	ampulla	ampul, ampoule
aq.	aqua	water
aq. dest.	aqua destillata	distilled water
a.d.	aurio dextra	right ear
a.l.	aurio laeva	left ear
a.s.	aurio sinister	left ear
a.u.	auris utrae	each ear
b.i.d.	bis in die	twice daily
b.m.	bowel movement	bowel movement
b.p.	blood pressure	blood pressure
c.	cong	gallon
c	cum	with
caps.	capsula	capsule
cc.		cubic centimeter
comp.	compositus	compound
d.	dies	day
dil.	dilue	dilute
disp.	dispensa	dispense
div.	divide	divide
d.t.d.	dentur tales doses	give of such a dose
el.	elixir	elixir
e.m.p.		as directed
et	et	and
ex aq.		in water
f., ft.	fac, fiat, fiant	make, let be made
FDA	Food and Drug Administration	Food and Drug Administration
Gm., g.	gramma	gram
gr.	granum	grain
gtt.	gutta	a drop
h.	hora	hour
h.s., hor.som.	hora somni	at bedtime
i.m., I.M.		intramuscular
i.v., I.V.		intravenous
liq.	liquor	a liquor, solution
mcg.		microgram
mg.		milligram
mL., ml.		milliliter
M.	misce	mix
m.dict.	more dictor	as directed
mixt.	mixtura	a mixture
N.F.	National Formulary	National Formulary
no.	numerus	number
noc.	nocturnal	in the night
non. rep.	non repetatur	do not repeat, no refills
O, Oct.	octarius	a pint
o.d.	oculus dexter	right eye
o.l.	oculus laevus	left eye

Abbrev.	Word	Meaning
o.s.	oculus sinister	left eye
o.u.	oculus uterque	each eye
p.c., post. cib.	post cibos	after meals
P.M.	post meridiem	afternoon or evening
p.o.	per os	by mouth
p.r.n.	pro re nata	as needed
pulv.	pulvis	a powder
q.a.d.	quoque alternis die	every other day
q.d.		every day
q.h.	quiaque hora	every hour
q.i.d.		four times a day
q.o.d.		every other day
q.s.	quantam sufficiat	a sufficient quantity
q.s. ad		a sufficient quantity to make
q.v.	quam volueris	as much as you wish
Rx	recipe	take, a recipe
rep.	repetatur	let it be repeated
s, s	sine	without
s.a.	secundum artem	according to art
sat.	saturatus	saturated
Sig.	signa	label, or let it be printed
sol.	solutio	solution
solv.		dissolve
ss, sss	semis	one-half
s.o.s.	si opus sit	if there is need
sta., stat.	statim	at once, immediately
supp.	suppositorium	suppository
syr.	syrupus	syrup
tab.	tabella	tablet
tal.		such
tal. dose.		such doses
t.i.d.	ter in die	three times a day
tr., tinct.	tincture	tincture
trit.	tritura	triturate
tsp.		teaspoonful
ung.	unguentum	ointment
USAN	United States Adopted Names	official adopted names
U.S.P.	US Pharmacopeia	US Pharmacopeia
ut. dict.	ut dictum	as directed
w.a.	while awake	while awake

¹Adapted from *Stedman's Concise Medical Dictionary for the Health Professions*. Williams & Wilkins. Copyright 1997.

REFERENCE CONVERSION GUIDE

Temperature Conversions

Centigrade (C) = (F-32) x 5/9

Fahrenheit (F) = (C x 9/5) + 32

Pharmacy and Drug Calculations

Concentration = Mass of Drug / Solution Volume

Example: Mass = $\frac{1000 \text{ mL} \times 5 \text{ gm}}{100 \text{ mL}} = 50 \text{ gm}$

(Concentration of Solution) x (Volume of Solution) = (Concentration of Stock) x (Volume of Stock)

Body Weight x Dosage = Volume of Drug x Drug Concentration

Unit Dosage Definition

A UNIT (U) is the amount of a drug needed to produce a given result.

Pediatric Dosing Rules

Young's Rule (Ages 1 – 12)

Child's dose = $\frac{\text{Age of child in years}}{\text{Age of child in years} + 12}$ x Adult Dose

Clark's Rule

Child's dose = $\frac{\text{Weight of child in pounds}}{150 \text{ lb}}$ x Adult Dose

Surface Area

Child's Dose = $\frac{\text{Surface area of child in M}^2}{1.7 \text{ M}^2}$ x Adult Dose

Length Conversions

Micrometers	Millimeters	Centimeters	Meters	Kilometers	Miles	Yards	Feet	Inches
1	0.001	10 ⁻⁴						0.000039
10 ³	1	10 ⁻¹					0.00328	0.03937
10 ⁴	10	1	0.01			0.0109	0.03281	0.03937
254,000	25.4	2.54	0.0254			0.0278	0.0833	1
10 ⁶	10 ³	10 ²	1	0.001	0.0006213	1.0936	3.2808	39.37
914,400	914.40	91.44	0.9144	0.009	0.0005681	1	3	36
10 ⁹	10 ⁶	10 ⁵	10 ³	1	0.6215	1093.6121	3180.8	
			1609	1.609	1	17		

Approximate Conversions:

Millimeters to inches: multiply by 10, divide by 254

Inches to millimeters: multiply by 254, divide by 10

Centimeters to feet: multiply by 10, divide by 305

Feet to centimeters: multiply by 305, divide by 10

Meters to yards: multiply by 70, divide by 64

Yards to meters: multiply by 64, divide by 70

Kilometers to miles: multiply by 5, divide by 8

Miles to kilometers: multiply by 8, divide by 5

REFERENCE CONVERSION GUIDE

Weight Conversions

				Metric Equivalents		
Grains	Drams	Ounces	Pounds	Milligrams	Grams	Kilograms
1	0.0366	0.00023	0.00014	64.8	0.0648	0.000065
27.34	1	0.0625	0.0039		1.772	0.001772
437.5	16	1	0.0625		28.350	0.028350
7.000	256	16	1		453.5924	0.453592
0.0154				1	0.001	
15,432,358	564.32	35.27	2.2046		1000	1

Approximate conversions:

Kilograms to pounds: multiply by 1000, divide by 454

Pounds to kilograms: multiply by 454, divide by 1000

Grams to ounces: multiply by 20, divide by 567

Ounces to grams: multiply by 567, divide by 20

Capacity Conversions

					Metric Equivalents		
Minims	Fluid Drams	Fluid Ounces	Pints	Quarts	Gallons	Liters	Milliliters
1	0.0166	0.002	0.00013			0.0006	0.06161
60	1	0.125	0.0078	0.0039		0.0037	3.6967
480	8	1	0.0625	0.0312	0.0078	0.0296	29.5737
7,680	128	16	1	0.5	0.125	0.4732	473.166
15,360	256	32	2	1	0.25	0.9464	946.358
61,440	1024	128	8	4	1	3.7854	3785.434
16,230	270.52	33.8418	2.1134	1.0567	0.2642	1	1000
16.23	0.2705	0.0338	0.00212	0.00106	0.000265	0.001	1

Approximate conversions:

Liters to gallons: multiply by 264, divide by 1000

Gallons to liters: divide by 264, multiply by 1000

Liters to pints: multiply by 21, divide by 10

Pints to liters: multiply by 10 divide by 21

Household Measure Conversions

Teaspoons	Tablespoons	Cups or Glasses	Drams	Fluid Ounces	Milliliters	Grams*
1			1	0.167	5	5
3	1		4	0.5	15	15
48	16	1	64	8	237	240

* Based on water

SPECIFIC GRAVITIES FOR COMMON PARENTERAL NUTRITION INGREDIENTS

Ingredient	Specific Gravity
Albumin 25%	1.07
Aminosyn 10%	1.03
Aminosyn 15%	1.05
Aminosyn 8.5%	1.03
Aminosyn II, 10%	1.03
Aminosyn II, 15%	1.05
Aminosyn II, 8.5%	1.03
Ascorbic Acid, 500 mg/mL	1.274
Ca Gluconate, 0.465 mEq	1.05
Calcium Chloride, 1.36 mEq/mL	1.02
Clinisol 15%	1.05
Clinisol 15%	1.05
Dextrose 5%	1.02
Dextrose 50	1.17
Dextrose 70%	1.24
Famotidine 200 mg	1.023
Freamine III 10%	1.03
Freamine III 8.5%	1.03
Heparin, 1000 units/mL	1
Hepatasol 8%	1.03
Infuvite Adult	1.02
Intralipid 10%	1
Intralipid 20%	0.99
Intralipid 20%	0.99
Intralipid 30%	0.97
K-Acetate, 2mEq/mL	1.09
K-Chloride, 2mEq/mL	1.09
K-Phosphate, 3 mM/mL	1.32

Ingredient	Specific Gravity
L-Cysteine 50 mg/mL	1
Liposyn II 10%	1
Liposyn II 20%	0.988
Liposyn III 10%	0.995
Liposyn III 30%	0.985
Mannitol 25%	1.089
Mg Sulfate, 4 mEq/mL	1.21
MTE-4, 10 mL Vial	1.18
Multilyte-20	1.086
Multilyte-40	1.18
MVI-12	1
Na Acetate, 2 mEq/mL	1.08
Na Bicarb 5%	1.03
Na Chloride, 4 mEq/mL	1.15
Na Phosphate, 3 mM/mL	1.28
Novamine 15%	1.05
Nutrilite, 7562 mOsmol/L	1.07
Plasma-Lyte A	1.01
Premasol 10%	1.02
Premasol 6%	1.01
Ranitidine Hydrochloride 25 mg/mL	1.01
RenAmin 6.5%	1.02
Sterile Water for Injection	1
Selenium 400 mcg	1
Sodium Bicarb, 8.4%	1.05
Trophamine 10%	1.03
Trophamine 6%	1.02
Zinc 1 mg/mL	1

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