

# **Battery Market in Motion**

KEEPING A PULSE ON (") PACKAGING TRENDS.

FALL 2014

#### STOCK BATTERY PACKAGING



Scan this code for quick access to Battery Packaging information

## DID YOU KNOW?



PHMSA recently published the Final Rule on **Transportation** of Lithium Batteries (HM-224F).

This Final Rule harmonizes many of the applicable provisions with the International Regulations, (ICAO, IMDG and the UN Model Regulations).

## How Does HM-224F affect your compliance program?

To find out what the significant changes in this Final Rule are and what they mean for Battery shippers, read our *Safe Packaging Matters* newsletter on **Safe Battery Packaging.** 

#### CUSTOM BATTERY PACKAGING



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## CUSTOM (u) PACKAGING



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MODUL



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## **BATTERY PACKAGING – Stock and Custom Packs**



#### **SMALL BATTERY PACK**



#### LARGE BATTERY BOX



#### **RETENTION PACK**



#### **12.2 GALLON PLASTIC**



#### **CUSTOM BATTERY PACKS**

#### **HAZ**Plus<sup>®</sup>

1311 South 39th Street St. Louis, MO 63110 866-596-6786 www.hazplus.com service@hazplus.com



c 11 p					
Small Battery Pacl					44
Product	Part# 30-9937		Carton ID	Carton OD	
Corrugated Box Packing Group	MAX Weight		11 1/2" x 11 1/2" x 11  MAX Shipping	12" x 12" x 12" Associated	
acking Group	Inner Container and Lading		Weight of Complete Package	UN Certification Rating	
PG II (Y) & PG III (Z)**	21.2 kg (46.72 lb)		22 kg (49.81 lb)	4G/Y22.6/S	
Accessories (not included) Liner Bag	Part# 06-1061		Details	18" x 14" x 36" , 3 mil, one per carton	
Large Battery Box			10 × 14 × 30 , 3 11111, 01	ne per car	ton
Product	Part#		Carton ID	Cartor	OD
arge Battery Box	30-8107		24 3/4" x 12 5/8" x 13	25 1/8	" x 13 1/4" x 15
PG II (Y) & PG III (Z)**	57 kg (125.6	2 lb)	65 kg (143.26 lb)	UN4G/Y65/S	
Accessories (not included)	Part#		Details		
iner Bag*	06-1030		24" X 20" X 48", 3 MIL LDPE		
/ermiculite*	13-0000		See Absorbents (page 39) for availa		able options
Battery Retention					
Product	Part#		Carton ID	Cartor	
Retention Box	30-9397		24 3/4" x 12 5/8" x 13	25 1/8" x 13 1/4" x 15	
Retention Insert* PG II (Y) & PG III (Z)**	<b>30-9398</b> 6.5 kg (14.32 lb)		7.2 kg (15.86 lb)	1/4" 1/4" UN4G/Y7.2/S	
				01440/	17.2/3
12.2 Gallon Plastic	Part#	Details	eries		
Plastic Pail			Plastic, Open Head Pail, includes Scr		ew-top Cover
Screw Top Cover	<b>07-1532</b> Screw Top Co				
Anti-Stat Poly Bag	06-1073		38", Pink, 3 mil, Anti-Stat		
PG II (Y) & PG III (Z)**	59 kg (130.0	3 lb)	55.55 kg (122.43 lb)	UN1H2	2/Y59/S
Accessories (not included)	Part#	Details			
/ermiculite	13-0000	See Absorbe	ents (page 39) for available	options	
Custom Battery P	ack A				
Product	Part#		Carton ID		Carton OD
Corrugated Box	30-8718		19 13/16" x 12 7/16" x 14	4 3/8"	20 1/4" x 12 7/8" x 15 3
Packing Group	MAX Weight Inner Container and Lading		MAX Shipping Weight of Complete Package		Associated UN Certification Rating
PG II (Y)	30.73 kg (67	.6 lb)	32 kg (70.4 lb)		4G/Y32/S/**/
Accessories (not included)	Part#		Details		
Polyethylene Foam; Toam tray	MISC9255		19 1/8" x 11 11/16" x 4";	1.8#	
Flexible Bag	06-1061 21-1237		18" x 14" x 36"		
Closure			48mm minimum width ta	pe	
Custom Battery P					Carton OD
Product	Part#		Carton ID		
			Carton ID 19 7/8" x 14 1/2" x 7 1/2	,,	
Corrugated Box	30-8566 MAX Weigh	nt	19 7/8" x 14 1/2" x 7 1/2	<i>"</i>	20 1/4" x 15" x 9" Associated
Corrugated Box	30-8566			n	20 1/4" x 15" x 9"
Corrugated Box Packing Group	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4	iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb)	"	20 1/4" x 15" x 9"  Associated UN Certification
Corrugated Box Packing Group PG II (Y) Accessories (not included)	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part#	iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details	n	20 1/4" x 15" x 9" Associated UN Certification Rating
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; foam tray	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259	iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"	"	20 1/4" x 15" x 9" Associated UN Certification Rating
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; roam tray Flexible Bag	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259	iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"  18" x 14" x 36"		20 1/4" x 15" x 9" Associated UN Certification Rating
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; roam tray Flexible Bag Closure	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259 06-1061 21-1237	iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"		20 1/4" x 15" x 9" Associated UN Certification Rating
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; foam tray Flexible Bag Closure Custom Battery Pa	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259 06-1061 21-1237	iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"  18" x 14" x 36" 48mm minimum width ta		20 1/4" x 15" x 9" Associated UN Certification Rating 4G/Y23/S/**/
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; foam tray Flexible Bag Closure Custom Battery Poroduct	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259 06-1061 21-1237 ack C	iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"  18" x 14" x 36"		20 1/4" x 15" x 9" Associated UN Certification Rating 4G/Y23/S/**/
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; oam tray Flexible Bag Closure Custom Battery Poroduct Corrugated Box	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259 06-1061 21-1237 ack C Part# 30-4018 MAX Weigh Inner Conta	iner .7.88 lb)	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"  18" x 14" x 36" 48mm minimum width ta  Carton ID 24 1/4" x 22" x 13 1/4"  MAX Shipping Weight of Complete		20 1/4" x 15" x 9" Associated UN Certification Rating 4G/Y23/S/**/  Carton OD 26 3/4" x 24 1/2" x 15 3, Associated UN Certification
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; Foam tray Flexible Bag Closure Custom Battery Poduct Corrugated Box Packing Group	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259 06-1061 21-1237 ack C Part# 30-4018 MAX Weigh Inner Conta and Lading	iner .7.88 lb) it iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"  18" x 14" x 36" 48mm minimum width ta  Carton ID 24 1/4" x 22" x 13 1/4"  MAX Shipping Weight of Complete Package		20 1/4" x 15" x 9" Associated UN Certification Rating 4G/Y23/S/**/  Carton OD 26 3/4" x 24 1/2" x 15 3/ Associated UN Certification Rating
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; foam tray Flexible Bag Closure Custom Battery Polyethylene Corrugated Box Packing Group	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259 06-1061 21-1237 ack C Part# 30-4018 MAX Weigh Inner Conta and Lading 30.03 kg (66	iner .7.88 lb) it iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"  18" x 14" x 36" 48mm minimum width ta  Carton ID 24 1/4" x 22" x 13 1/4"  MAX Shipping Weight of Complete		20 1/4" x 15" x 9" Associated UN Certification Rating 4G/Y23/S/**/  Carton OD 26 3/4" x 24 1/2" x 15 3/ Associated UN Certification
Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; Foam tray Closure Custom Battery Polyethylene Box Packing Group Packing Group Packing Group Packing Group	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259 06-1061 21-1237 ack C Part# 30-4018 MAX Weigh Inner Conta and Lading	iner .7.88 lb) it iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"  18" x 14" x 36" 48mm minimum width ta  Carton ID 24 1/4" x 22" x 13 1/4" MAX Shipping Weight of Complete Package 52 kg (114.4 lb)		20 1/4" x 15" x 9" Associated UN Certification Rating 4G/Y23/S/**/  Carton OD 26 3/4" x 24 1/2" x 15 3/ Associated UN Certification Rating
Product Corrugated Box Packing Group PG II (Y) Accessories (not included) Polyethylene Foam; foam tray Flexible Bag Closure Custom Battery Polyethylene Poduct Corrugated Box Packing Group PG II (Y) Accessories (not included) Inner Carton Vermiculite	30-8566 MAX Weigh Inner Conta and Lading 21.765 kg (4 Part# MISC9259 06-1061 21-1237 ack C Part# 30-4018 MAX Weigh Inner Conta and Lading 30.03 kg (66 Part#	iner .7.88 lb) it iner	19 7/8" x 14 1/2" x 7 1/2 MAX Shipping Weight of Complete Package 23 kg (50.6 lb) Details 2" x 14.5" x 7.5"  18" x 14" x 36" 48mm minimum width ta  Carton ID 24 1/4" x 22" x 13 1/4"  MAX Shipping Weight of Complete Package 52 kg (114.4 lb) Details		20 1/4" x 15" x 9" Associated UN Certification Rating 4G/Y23/S/**/  Carton OD 26 3/4" x 24 1/2" x 15 3/ Associated UN Certification Rating

\*Required \*\*PG I (X) are not applicable for this item.