UN SOLIDS TEST REPORT

6.5 Nov. Consection Bail with Contrated Cover							
6.	6.5 New Generation Pail with Gasketed Cover						
T	est Type:	Periodic Retest					
Addi	tional Pac	kage Designs Covered by this report:					
3.5 NO	w/Gaske	ted Cover & 5.0 NG w/Gasketed Cover					
Test Report	Number	NG65-16G					
Test Report	Nulliber.	11003-100					
Complet	ion Date:	8/24/2017					
_1	Test Faci	lity/Packaging Manufacturer					
Test Facility:		M&M Industries, Inc.					
Test Facility.		316 Corporate Place					
	(Chattanooga, TN 37419					
Packaging Manufacturer:		M&M Industries, Inc.					
1 ackaging ivianulacturer.		316 Corporate Place					
	(Chattanooga, TN 37419					
		1					
Completed By:		Verna Oken					
Title:	Qı	nality Assurance Manager					
		P. M.					
		1 ~ 1 N W					

M&M Industries, Inc. Form No. 306 5/8/17 Rev.H

M&M Industries, Inc.

REPORT#

NG65-16G

PACKAGE FILL WEIGHT INFORMATION

Overall package tare weight: 1.78 kg Filling Substance weight: 28.22 kg

Package UN weight - Gross: 30 kg

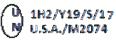
62.21 lbs. (Approx.)

UN MARKING



Additional UN Marks covered by this report:

3.5 Gallon



CLOSURE METHOD: PER ATTACHED INSTRUCTIONS

NOTES:

It is the responsibility of the end user to determine authorization for use of the packaging under the Hazardous Materials Regulations.

The use of packaging methods or components other than those documented in this report may render this certification invalid.

M&M Industries, Inc. Form No. 306 5/8/17 Rev.H

M&M Industries, Inc.

		Report #	NG65-16G
	COVER	DRAV	VING
Description			
Cover Size:	3.5-6.5	7	
Style:	New Generation	7	
Fittings:	N/A	7	
Gasket:	3.5 - 6.5 NG134"166" Dia x 33.992" - 34.488" L Neoprene(Lauren)	7	
Wall Thickness:	0.090		
Method of Manufact	ure: Injection Molded	7	
Material:	High Density Polyethylene	7	
Mold #	22083	7	
Tare Weight (kg):	0.47		
Overall Dimension	ons		
Height:	2.47		
Top Diameter:	12.39		
Bottom Diameter:	12.92		
Thread Dimension	ons		
Major Diameter:	12.54		
Minor Diameter:	12.13		
	M&M Industries, Inc.		
	Chattanooga, TN 37419		
	Phoenix, AZ 85043		
	www.ultimatepail.com		
	SPI "2" HDPE Recycling Symbol		
Markingș	TO OPEN		
	PUSH BACK TO OF		
	LEVER WITH THUMB		
	WHILE TURNING COVER		
	TO CLOSE		
	TURN COVER CLOCKWISE		

M&M Industries, Inc. Form No. 306 5/8/17

M&M Industries, Inc.

Description Pail Size: 6.5 Style: New Generation Gasket NA Method of Manufacture: Injection Molded Material: High Density Polyethylene Wall Thickness: 0.090 Mold# 12057 Tare Weight (kg): 1.31 Capacity Overflow without cover in place (Water)(kgs): 27.00 Overall Dimensions Height: 18.81 Diameter Below Stacking Lug: 11.14 Bottom Diameter: 10.37 Diameter at Curl (MZ Only): NA Thread Dimensions Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.			Report# NG65-16G
Pail Size: 6.5 Style: New Generation Gasket NA Method of Manufacture: Injection Molded Material: High Density Polyethylene Wall Thickness: 0.090 Mold# 12057 Tare Weight (kg): 1.31 Capacity Overflow without cover in place (Water)(kgs): 27.00 Overall Dimensions Height: 18.81 Diameter Below Stacking Lug: 11.14 Bottom Diameter: 10.37 Diameter at Curl (M2 Only): NA Thread Dimensions Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.		DRUM	DRAWINGS
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Diameter Below Stacking Lug: 11.14 Bottom Diameter: 10.37 Diameter at Curl (M2 Only): NA Thread Dimensions Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.	Verall Dimension	าร	
Only): NA Thread Dimensions Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.	Height:	18.81	
Only): NA Thread Dimensions Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.	Diameter Below		
Only): NA Thread Dimensions Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.	Stacking Lug:	11.14	
Only): NA Thread Dimensions Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.	Bottom Diameter:	10.37	3
Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.	Diameter at Curl (M2		
Major Diameter: 12.27 Minor Diameter: 11.89 M&M Industries, Inc.		<u> </u>	
Minor Diameter: 11.89 M&M Industries, Inc.	hread Dimensior	IS	
M&M Industries, Inc.	Major Diameter:	12.27	
	Minor Diameter:	11.89	
		M&M Industries, Inc.	
		Chattanooga, TN 37419	Î
Phoenix, AZ 85043		_	
www.ulitmatepail.com		· · · · · · · · · · · · · · · · · · ·	
SPI "2" HDPE Recycling Symbol		SPI "2" HDPE Recycling Symbol	
Markings 6.5 U.S. GALS. U 1H2/Y30/S/17	Markings	6.5 U.S. GALS.	
N.R.C090 N.S.A./M2074		N.R.C090 N U.S.A./M2074	
UN 1H2/X11.5/5/17 U.S.A./M2074			
PAT. NO. 4,732,288		0 .	
OTHER PAT PENDING		· ·	
PAT. NO. 4,967,926			
PAT. NO. 6,866,162			
CHINA PAT ZL03809142.9			
PAT.6,776,302B2			
PAT. D,504,987S		The state of the s	

	Repor	t #	NG65-16G
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62.21 lb.

66.14 lb.

DROP TEST CALCULATIONS

Maximum Fill Capacity with cover in

place(water): 26.06 kg 95% Of Maximum fill Capacity (water): 24.75 kg

Overall Package Tare Weight: 1.78 kg Actual Filling substance weight: 28.22 kg Package Test Weight: 30

1 lb.= 0.4535924kg 1 kg = 2.204622 lb.

kg

Packing Group

Allowed (Chemical): Y(PG II&III) Package Test Level: Y(PG II&III)

> Gross Mass (UN Mark on pail) 30 kg

		DRO	P TEST			
Sample Size:	6 Samples/3 per orientation					
Test Contents:		Sand Mesh 2-635				
Additional Test Contents:	Vermiculite 8 Bags Approx. Weight of Add. Contents 1.6kg					
Conditioning:	-18 C (0 F) sample temperature at time of test, min. 24 hr. conditioning.					
Drop Height:	Inches: 48 Meters: 1.2 (PG II) 1 m=3.280840 ft.					
Test Equipment:	Mechanical Drop Tester and thermometer in filled sample (inside freezer)					
Test Standard:	Title 49 CFR; Section 178.603					
Target:	A rigid, non-resilient, flat and horizontal surface.					

Criteria for passing the test for solids:

Any discharge from a closure is slight and ceases immediately after impact with no further leakage; and no rupture is permitted in packaging's for materials in Class 1 which would permit spillage of loose explosive substances or articles from the outer packaging.

DROP TEST SET-UP AND RESULTS						
Drop Orientation	Sample	Results				
Diagonal Top Chime	1	Pass				
Diagonal Top Chime	2	Pass				
Diagonal Top Chime	3	Pass				
Flat on Side	1	Pass				
Flat on Side	2	Pass				
Flat on Side	3	Pass				

Report #

NG65-16G

STACKING & STACKING STABILITY TEST CALCULATIONS/RESULTS

		Stack Tes	t Minir	num Load Cal	culatio	n		
N	lumbe	of packages in	a 3m Hi	gh Stack (118/	Nesting	Height (NH)	-1)	
(118	/	NH)	=	#	-	-1	=:	#3m HS
118	/	18.50	=	6.38		1	_	5.38
		Stant Test La	ad Calda		usi Pac	are)		
		Gross Mass	Х	#3m HS	=	Load		
		30	X	5.38	=	161.40	 kg	
						Аррох.	355.8	B2 lbs.
			EST IN	FORMATION				
Stack Test				A STATE OF THE PARTY OF THE PAR				
Test contents:		Sand mesh size	e 2-635					
Additional test contents:		Vermiculite		8 b	ags	Approx. Weig	ht of Add. Conten	ts 1.6kg
Conditioning:		Standard room temperature/RH						
Equipment:		Dead load weight/Guided load fixture						
Test Duration:		24 hours						
Test Standard:		Title 49 CFR; Se	ection 1	78.606				

Criteria for passing the Stack Test

No test sample may leak or show any deterioration which could adversely affect transportation safety or any distortion likely to reduce its strength, or cause instability In stacks of packages.

STACK TEST RESULTS							
SAMPLE #	START TIME	DURATION	END TIME	RESULTS			
1	12:00PM	24 hours	12:00PM	Pass			
2	12:00PM	24 hours	12:00PM	Pass			
3	12:00PM	24 hours	12:00PM	Pass			

	STACK STABILITY RESULTS			
RESULTS	CRITERIA FOR PASSING THE TEST			
	In guided load tests, stacking stability must be assessed after test completion.			
	Two filled packaging's of the same type must be placed on the test sample			
Pass	·The stacked packages must maintain their position for 1 hour.			
	For stack stability, M&M places the filled samples one on top of the other. The bottom sample			
	is rotated to the top until all three samples have been subjected to stacking stability for one			
	hour each			

Report #

NG65-16G

Additional Drops (If REQUIRED for Variation 5)

Criteria for passing the test for solids

Any discharge from a closure is slight and ceases immediately after impact with no further leakage; and no rupture is permitted in packaging's for materials in Class 1 which would permit spillage of loose explosive substances or articles from the outer packaging.

Description:

Sample	Drop Orientation	Results
1	Diagonal Top Chime	
2	Diagonal Top Chime	
3	Diagonal Top Chime	

Description:

Sample	Drop Orientation	Results
1	Diagonal Top Chime	
2	Diagonal Top Chime	
3	Diagonal Top Chime	

Description:

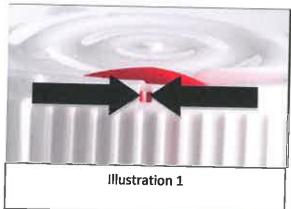
Sample	Drop Orientation	Results
11	Diagonal Top Chime	
2	Diagonal Top Chime	
3	Diagonal Top Chime	

Description:

Sample	Drop Orientation	Results
11	Diagonal Top Chime	
2	Diagonal Top Chime	
3	Diagonal Top Chime	

2.0, 2.5, 3.5, 5.0 and 6.5 gallon Gasketed lid: (Marked MM on lid):

To Close: Seat lid on top of pail (Marked MM on bottom of pail). Rotate lid clockwise until the small window by the trigger (see III. 1) is located to the left of the UN mark (see III.3) on the side of the pail and continue rotating until the lid is fully tightened (see III.5). Inspect lid after application to confirm it is properly seated.



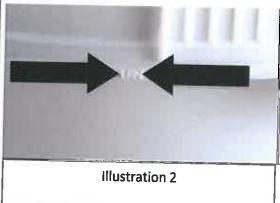




Illustration 5- Example of lid fully tightened, gasketed pail, window to left of UN mark.