

SAMPLE PREPARATION AND PACKAGE WEIGHT INFORMATION

4 x 1 Gallon Round Plastic 150 Gram Bottle Packaging (with Standard Closure)

OVERALL PACKAGE TARE WEIGHT:	• 1,523 Grams (3.357 Lbs.)
OVERFLOW CAPACITY:	• 3,937 Grams Net
FILL CAPACITY: (98% of Maximum Capacity)	• 3,858 Grams Net
PACKAGE TEST WEIGHT:	• 17.0 Kg (37.5 Lbs.)
AUTHORIZED PACKAGE GROSS MASS: (Based on 1.2 Specific Gravity)	• 20.0 Kg (44.1 Lbs.)
INNER PACKAGING CLOSING/SEALING METHOD:	• 19 In-Lbs. using Torque Machine #W701

It is the responsibility of the manufacturer or other person certifying compliance to provide closing instructions in accordance with Title 49 CFR 178.2.

TEST	SAMPLE ID:	*TEST CONTENT(S):	CONDITIONING:
Drop	1,2,3,4,5	Methanol/Water	-18°C (0°F)
Stack	11,12,13	Water	73°F / 50% RH
Pressure	1,2,3	Water	Ambient
Vibration	14,15,16	Water	73°F / 50% RH

4 x 1 Gallon Round Plastic 150 Gram Bottle Packaging (with CRC Closure)

OVERALL PACKAGE TARE WEIGHT:	• 1,535 Grams (3.384 Lbs.)
OVERFLOW CAPACITY:	• 3,937 Grams Net
FILL CAPACITY: (98% of Maximum Capacity)	• 3,858 Grams Net
PACKAGE TEST WEIGHT:	• 17.0 Kg (37.5 Lbs.)
AUTHORIZED PACKAGE GROSS MASS: (Based on 1.2 Specific Gravity)	• 20.0 Kg (44.1 Lbs.)
INNER PACKAGING CLOSING/SEALING METHOD:	• 19 In-Lbs. Using Torque Machine #W701

It is the responsibility of the manufacturer or other person certifying compliance to provide closing instructions in accordance with Title 49 CFR 178.2.

TEST	SAMPLE ID:	*TEST CONTENT(S):	CONDITIONING:
Drop	6,7,8,9,10	Methanol/Water	-18°C (0°F)
Stack	11,12,13	Water	73°F / 50% RH
Pressure	1,2,3	Water	Ambient
Vibration	17,18,19	Water	73°F / 50% RH

For Packagings with an Established Gross Mass:

If the gross mass calculation in this report exceeds the previously established gross mass, the manufacturer may elect to maintain the current gross mass marking (e.g. the gross mass rating of the UN marking on the packaging may be less than the calculated gross mass indicated in this report) or use the newly established gross mass. In no event shall the gross mass marking on the packaging exceed the gross mass to which the packaging was tested.

EQUIPMENT

All inspection, measuring and test equipment that can affect product quality is calibrated and adjusted at prescribed intervals, or prior to use, and is traceable to NIST, using ANSI Z540 as an overall guide for calibration certification.

SECTIONS II & V: PACKAGING DESCRIPTION / COMPONENT DRAWINGS

4 x 1 Gallon Round Plastic 120 Gram Bottles Packaging with (2) Closure Designs #1) Standard Closures & Design #2) CRC Closures																
ASSEMBLY DRAWING	TEST LEVELS															
	<table border="1"> <tr> <td>Certification Type:</td> <td colspan="2">Design Qualification</td> </tr> <tr> <td>Packaging Code Designation:</td> <td colspan="2">4G</td> </tr> <tr> <td>Packing Group:</td> <td colspan="2">II</td> </tr> <tr> <td>Specific Gravity:</td> <td colspan="2">1.2</td> </tr> <tr> <td>Internal Pressure:</td> <td colspan="2">95 kPa</td> </tr> </table>	Certification Type:	Design Qualification		Packaging Code Designation:	4G		Packing Group:	II		Specific Gravity:	1.2		Internal Pressure:	95 kPa	
	Certification Type:	Design Qualification														
	Packaging Code Designation:	4G														
	Packing Group:	II														
	Specific Gravity:	1.2														
	Internal Pressure:	95 kPa														
	TEST SAMPLE PREPARATION (Refer to Section IV)															
	Overall Package Tare Weight:	1,386 Grams														
	Fill Capacity (98% Overflow):															
	• Methanol/Water	3,715 Grams														
	• Water	3,870 Grams														
	Package Test Weight:															
	• Methanol/Water	16.2 Kg	35.7 Lbs													
	• Water	16.8 Kg	37.0 Lbs.													
	Authorized Package Gross Mass:	20.0 Kg	44.1 Lbs													
CLOSING METHODS – INNER PACKAGING																
Application Torque:	19 In-Lbs															
Equipment:	Vibrac Torque Meter															
CLOSING METHODS – SHIPPER																
Top Flaps:																
Type:	3M #375 Pressure Sensitive Tape															
Width:	2"															
Overlap:	2" Minimum															
Tape Pattern:	Center															
Inner Flaps:	Meet															
Outer Flaps:	Meet															
Bottom Flaps:																
Type:	Glued Bottom															
Inner Flaps:	Meet															
Outer Flaps:	Meet															

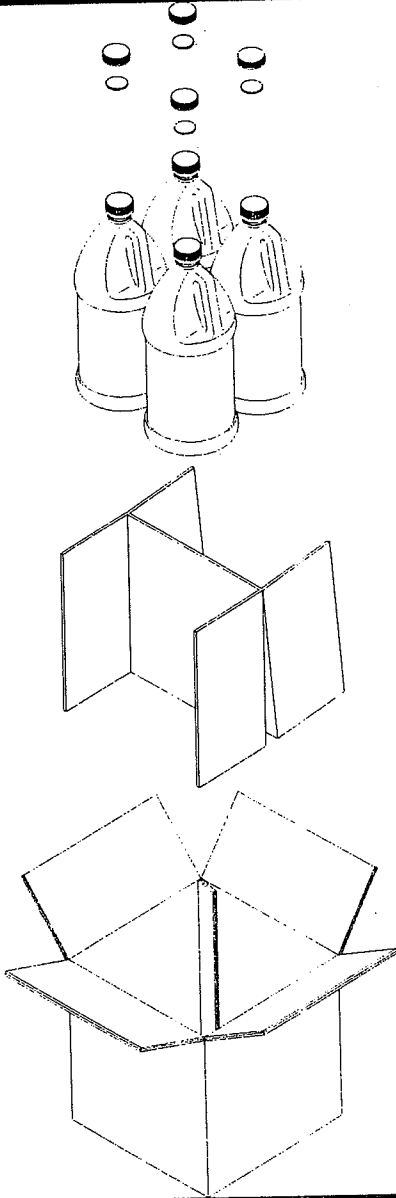
For Packagings with an Established Gross Mass:

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SECTIONS II & V: PACKAGING DESCRIPTION / COMPONENT DRAWINGS

4 x 1 Gallon Round Plastic Bottle Packaging with Design #1 GRC & Design #2 Standard Closures

ASSEMBLY DRAWING



TEST LEVELS

Certification Type:	Periodic Retest
Packaging Code Designation:	4G
Packing Group:	II
Specific Gravity:	1.6
Internal Pressure:	95 kPa

TEST SAMPLE PREPARATION
(Refer to Section IV)

Overall Package Tare Weight:	1.553 Kg	3.423 Lbs.
Fill Capacity (98% Overflow):	<ul style="list-style-type: none"> Methanol/Water: 3,721 Grams Water: 3,876 Grams 	
Package Test Weight:	<ul style="list-style-type: none"> Methanol/Water: 16.4 Kg 36.1 Lbs. Water: 17.0 Kg 37.4 Lbs. 	
Authorized Package Gross Mass:	26.3 Kg	57.9 lbs.

CLOSING METHODS – INNER PACKAGING

Application Torque:	19 In/Lbs
Equipment:	Vibrac Torque Meter

CLOSING METHODS – SHIPPER

Top Flaps:

Type:	3M #375 Pressure Sensitive Tape
Width:	2"
Overlap:	2" Minimum
Tape Pattern:	Center
Inner Flaps:	Meet
Outer Flaps:	Meet

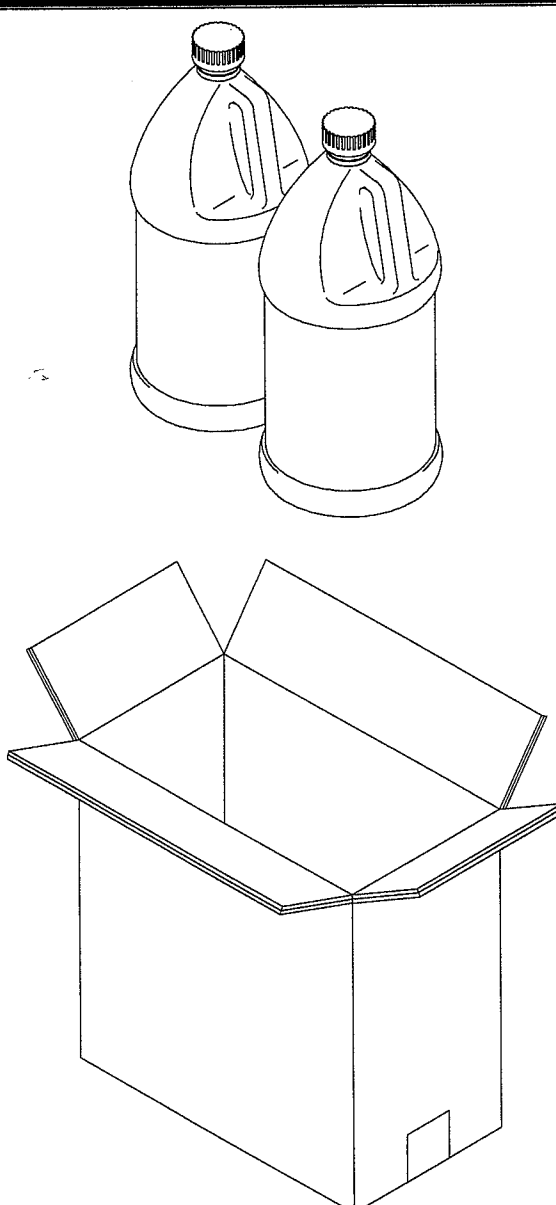
Bottom Flaps:

Type:	Glued
Width:	Hot Melt Glued; Prepared by Plastic Industries
Inner Flaps:	Meet
Outer Flaps:	Meet

For Packagings with an Established Gross Mass:

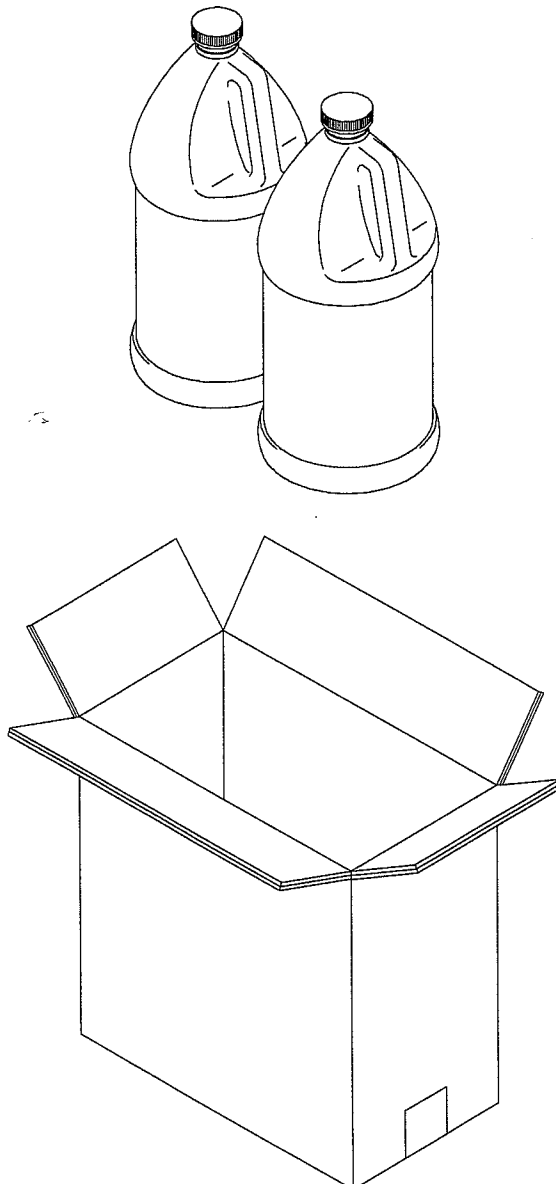
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SECTIONS II & V: PACKAGING DESCRIPTION / COMPONENT DRAWINGS

2 x 1 Gallon Round Plastic Bottle Packaging with CRC Closure		
ASSEMBLY DRAWING	TEST LEVELS	
	Certification Type: Design Qualification	
	Packaging Code Designation: 4G	
	Packing Group: II	
	Specific Gravity: 1.2	
	Internal Pressure: 95 kPa	
	TEST SAMPLE PREPARATION (Refer to Section IV)	
	Overall Packaging Tare Weight: 714 Grams	
	Inner Packaging Fill Capacity (98% Maximum Capacity):	
	Methanol/Water 3,781 Grams	
	Water 3,898 Grams	
	Package Test Weight:	
	Methanol/Water 8.2 Kg (18.0 Lbs.)	
	Water 8.5 Kg (18.7 Lbs.)	
	Authorized Package Gross Mass: 10.0 Kg (22.0 Lbs.)	
	CLOSING METHODS – INNER PACKAGING	
	Application Torque 19 In – Lbs.	
	Equipment: Kaps All Electronic Torque Tester #701	
	CLOSING METHODS – SHIPPER	
	Top Flaps	
	Type: 3M #375 Pressure Sensitive Tape	
Width: 48 mm (2")		
Overlap: 2" Minimum		
Tape Pattern: Center Seam		
Inner Flaps: 6-1/2" Width Gap		
Outer Flaps: Meet		
Bottom Flaps		
Type: 3M #375 Pressure Sensitive Tape		
Width: 48 mm (2")		
Overlap: 2" Minimum		
Tape Pattern: Center Seam		
Inner Flaps: 6-1/2" Width Gap		
Outer Flaps: Meet		

For Packagings with an Established Gross Mass:

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2 x 1 Gallon Round Plastic Bottle Packaging with Standard Closure		
ASSEMBLY DRAWING	TEST LEVELS	
	Certification Type: Design Qualification	
	Packaging Code Designation: 4G	
	Packing Group: II	
	Specific Gravity: 1.2	
	Internal Pressure: 95 kPa	
	TEST SAMPLE PREPARATION (Refer to Section IV)	
	Overall Packaging Tare Weight: 714 Grams	
	Inner Packaging Fill Capacity (98% Maximum Capacity):	
	Methanol/Water 3,781 Grams	
	Water 3,898 Grams	
	Package Test Weight:	
	Methanol/Water 8.2 Kg (18.0 Lbs.)	
	Water 8.5 Kg (18.7 Lbs.)	
	Authorized Package Gross Mass: 10.0 Kg (22.0 Lbs.)	
	CLOSING METHODS – INNER PACKAGING	
Application Torque 19 In-Lbs.		
Equipment: Kaps All Electronic Torque Tester #701		
CLOSING METHODS – SHIPPER		
Top Flaps		
Type: 3M #375 Pressure Sensitive Tape		
Width: 48 mm (2")		
Overlap: 2" Minimum		
Tape Pattern: Center Seam		
Inner Flaps: 6-1/2" Width Gap		
Outer Flaps: Meet		
Bottom Flaps		
Type: 3M #375 Pressure Sensitive Tape		
Width: 48 mm (2")		
Overlap: 2" Minimum		
Tape Pattern: Center Seam		
Inner Flaps: 6-1/2" Width Gap		
Outer Flaps: Meet		

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If the gross mass calculation in this report exceeds the previously established gross mass, the manufacturer may elect to maintain the current gross mass marking (e.g. the gross mass rating of the UN marking on the packaging may be less than the calculated gross mass indicated in this report) or use the newly established gross mass. In no event shall the gross mass marking on the packaging exceed the gross mass to which the packaging was tested.