

DGP Hand Sanitizer Gel

Effective against 99.99% common germs with a [microbiology kill report!](#)

Sanitizes, Protects, and Nourishes
“Feel the Difference”

- Concentrated High-Strength formula ($\geq 72\%$ ethyl alcohol v/v%)
- FDA Registered product with NDC 74631-003
- FDA Registered facilities
- USDA BioPreferred Registered
- DGP Advisors include - PhD Microbiologist and PhD Chemist
- Silky feel - imparts cleaner, smoother gel application
- Conditions and nourishes skin with extra emollients like Vitamin E
- Proprietary formula, plant-based thickener
- Refreshing citrus scent
- Dries fast

SKU	Size	Description
2052	32oz	Hand Sanitizer Gel -32oz bottle with a pump
2051	1gal	Hand Sanitizer Gel -1gal bottle
2059	55gal	Hand Sanitizer Gel -55gal drum
2070	BULK	Hand Sanitizer Gel - BULK gallons
FOB Memphis, TN 38113		
Lead time is 1-14 days		
1 Pallet MOQ - 360 (32oz) or 144 (1gal) or 4 (55gal)		



visit www.DGPWORKS.com from more information

BIO-BASED Lubricants & Solutions

High Performance, 100% Compatible with Equipment, USDA BioPreferred*, Readily Renewable, Environment Safe, Made in the USA. ZERO COMPROMISE!



The most modern ethanol plant in the US and Globally FSSC 22000 Certified, highest food grade rating possible





Vertrauen Chemie
Solutions, TN

TIME KILL STUDY

DGP HIGH PERFORMANCE HAND SANITIZER

FINAL REPORT: R2020-267-1

Prepared for:
Dynamic Green Products, Inc
11757 Katy Frwy Suite 1300
Houston, TX 77079

Testing Provided by:



130 Erick Street
Crystal Lake, IL 60014
815.526.0954

Start Date: May 21, 2020

End Date: May 26, 2020

Report Issued: May 27, 2020

Performed By: *Agata Shulfer*

Title: Senior Staff Scientist

Approved By: *John E. Jones*

Title: Laboratory Director



Objective

To determine the antimicrobial efficacy of one test product when challenged against eighteen different microorganisms in an in-vitro time kill evaluation using a 20 seconds contact time.

Test Sample Description

1. DGP High Performance Hand Sanitizer Formula #2

Test Organisms

1. *Staphylococcus aureus* ATCC# 6538
2. *Staphylococcus epidermis* ATCC# 12228
3. *Staphylococcus hominis* ATCC# 700236
4. *Staphylococcus haemolyticus* ATCC# 29970
5. *Micrococcus luteus* ATCC# 7468*
6. *Candida albicans* ATCC# 10231
7. *Escherichia coli* ATCC# 25922
8. *Pseudomonas aeruginosa* ATCC# 15442
9. *Pseudomonas aeruginosa* ATCC# 27853
10. *Proteus mirabilis* ATCC# 7002
11. *Serratia marcescens* ATCC# 14756
12. *Streptococcus pyogenes* ATCC# 12344
13. *Enterococcus faecalis* ATCC# 29212
14. *Enterococcus faecium* VRE ATCC# 700221
15. *Streptococcus pneumoniae* ATCC# 49150
16. *Haemophilus influenza* ATCC# 19418
17. *Bacteroides fragilis* ATCC# 25285
18. *Klebsiella pneumoniae* ATCC# 4352

*ATCC# 7468 is currently identified by ATCC as *Micrococcus yunnanensis*.



Test Protocol - Neutralization Validation

Summary – The purpose of a neutralization validation is to determine if the active ingredient in a product no longer has the ability to kill the test organism after the product is added to the neutralizer.

The product was added to D/E neutralizing broth at the same concentration as it would be added in the kill study, a 1:10 dilution. For the control, the product was also added to an aliquot of phosphate-buffered saline (PBS). This dilution of the product may also contribute to the neutralization. The *Staphylococcus aureus* ATCC# 6538 and *Escherichia coli* ATCC# 25922 were used as the challenge for this validation, applied at a final concentration of 30-100 CFU/mL, as per standard test method, ASTM E1054.

1. Add 1.0 mL of product with 9.0 mL of D/E broth
2. Mix 5 seconds
3. Add 0.1 mL of a 10^4 CFU/mL bacterial suspension, resulting in a 1:100 dilution of the organism
4. Mix again, for a total of 20 seconds
5. Plate the resulting suspension by quantitative pour plates

Test Protocol – Time Kill Study

Summary – Overnight broth cultures of the organisms were adjusted spectrophotometrically to a 10^8 CFU/mL concentration. These suspensions were used as the inoculum working suspension, added to the test product and mixed for 20 seconds. After the contact time, an aliquot of the dosed product was transferred to D/E broth, mixed, serially diluted and plated. An initial serial dilution of each inoculum was performed to confirm the concentration of the challenges. The PBS control was also run at the contact time and served as the baseline for the reduction calculations and confirmation of the organism's viability during the challenge.

Inoculum Preparation:

1. All test organisms were inoculated into Tryptic Soy Broth (TSB) and shaken overnight at 35°C except for the following organisms:
 - a. *Streptococcus pyogenes* and the 2 *Enterococcus* strains were inoculated into Brain Heart Infusion (BHI) broth and shaken overnight at 35°C.
 - b. *Bacteroides fragilis* was inoculated into BHI broth and incubated overnight in the anaerobic incubator.
 - c. The *Haemophilus influenzae* was grown overnight on Chocolate Agar plates and transferred directly by swab to BHI broth.
 - d. The *Streptococcus pneumoniae* was grown overnight on Blood Agar plates and transferred directly by swab to BHI broth.
2. Immediately prior to use, the overnight cultures were adjusted spectrophotometrically to a concentration of 10^8 CFU/mL, plated quantitatively for confirmation of the concentration and used as the working inoculums.



Test Procedure:

3. Product was tested at 100% concentration.
4. The 9.9 mL of product was mixed with 0.1 mL of the working inoculum (a 1:100 dilution) in a sterile 50 mL centrifuge tube and mixed vigorously (final challenge concentration = 10^6 CFU/mL).
5. A 1.0 mL aliquot of the inoculated mixture was dispensed into a sterile 9.0 mL tube of D/E neutralizing broth (a 1:10 dilution) at the 20 second contact time. The neutralizing broth was mixed well and quantitatively plated in duplicate to determine the number of surviving organisms after the contact time.
6. A PBS control was run to confirm the concentration of the inoculum for use in the calculations.
7. Standard Methods Agar was used for most bacterial pour plates. Molten Blood Agar (TSA with 5% sheep blood) was used for the *Enterococcus* and *Streptococcus* pour plates. Chocolate agar was used for *Haemophilus influenzae* spread plates. The detection limit on pour plates is 10 CFU/mL. The detection limit on spread plates is 20 CFU/mL.

Calculations

$$\% \text{ Reduction in CFU/mL} = [(A-B)/A] \times 100$$

$$\text{Log}_{10} \text{ Reduction} = \text{Log}_{10} (A) - \text{Log}_{10} (B)$$

Where:

A = average CFU/mL of the organism recovered from the PBS challenge after contact time

B = average CFU/mL of the organism recovered from the product challenge after contact time

Neutralization Results

Analysis of product against *S. aureus* ATCC# 6538

Test Product	Recoverable CFU/mL in PBS	Recoverable CFU/mL in D/E broth
DGP High Performance Hand Sanitizer Formula #2	4.0×10^0	3.8×10^2

Initial concentration of *S. aureus* ATCC 6538 in the test above was 4.0×10^4 CFU/mL

Analysis of product against *E. coli* ATCC# 25922

Test Product	Recoverable CFU/mL in PBS	Recoverable CFU/mL in D/E broth
DGP High Performance Hand Sanitizer Formula #2	3.5×10^2	3.6×10^2

Initial concentration of *E. coli* ATCC 25922 in the test above was 3.3×10^4 CFU/mL.



Kill Study Results for: DGP High Performance Hand Sanitizer Formula #2

Challenge Organism	Number of Organisms Recovered (CFU/mL)		Percent Reduction (%)	Log Reduction
	PBS Control 20 sec	Product 20 sec		
<i>S. aureus</i> ATCC # 6538	2.7 x 10 ⁶	<1.0 x 10 ¹	>99.9996	>5.42
<i>S. epidermidis</i> ATCC # 12228	3.2 x 10 ⁶	<1.0 x 10 ¹	>99.9997	>5.51
<i>S. hominis</i> ATCC# 700236	2.2 x 10 ⁶	<1.0 x 10 ¹	>99.9995	>5.34
<i>S. haemolyticus</i> ATCC# 29970	2.4 x 10 ⁶	<1.0 x 10 ¹	>99.9996	>5.38
<i>M. luteus</i> ATCC# 7468	2.7 x 10 ⁵	<1.0 x 10 ¹	>99.9963	>4.43
<i>C. albicans</i> ATCC# 10231	2.7 x 10 ⁵	<1.0 x 10 ¹	>99.9963	>4.43
<i>E. coli</i> ATCC# 25922	2.8 x 10 ⁶	<1.0 x 10 ¹	>99.9996	>5.45
<i>Ps. aeruginosa</i> ATCC# 15442	3.1 x 10 ⁶	<1.0 x 10 ¹	>99.9997	>5.49
<i>Ps. aeruginosa</i> ATCC# 27853	3.0 x 10 ⁶	<1.0 x 10 ¹	>99.9997	>5.48
<i>P. mirabilis</i> ATCC# 7002	3.3 x 10 ⁶	<1.0 x 10 ¹	>99.9997	>5.51
<i>S. marcescens</i> ATCC# 14756	3.2 x 10 ⁶	<1.0 x 10 ¹	>99.9997	>5.51
<i>S. pyogenes</i> ATCC# 12344	5.9 x 10 ⁵	<1.0 x 10 ¹	>99.9983	>4.77
<i>E. faecalis</i> ATCC# 29212	4.2 x 10 ⁶	<1.0 x 10 ¹	>99.9998	>5.62
<i>E. faecium</i> ATCC# 700221	3.3 x 10 ⁶	<1.0 x 10 ¹	>99.9997	>5.52
<i>S. pneumoniae</i> ATCC# 49150	5.1 x 10 ⁵	<1.0 x 10 ¹	>99.9980	>4.71
<i>B. fragilis</i> ATCC# 25285	9.5 x 10 ⁶	<1.0 x 10 ¹	>99.99989	>5.98
<i>H. influenza</i> ATCC# 19418	8.2 x 10 ⁶	<2.0 x 10 ¹	>99.9998	>5.61
<i>K. pneumoniae</i> ATCC# 4352	2.7 x 10 ⁶	<1.0 x 10 ¹	>99.9996	>5.43

BUREAU VERITAS
Certification



VERTRAUEN CHEMIE SOLUTIONS, INC.

2170 BUOY STREET
MEMPHIS, TN 30113 USA

THIS IS A MULTI-SITE CERTIFICATE, ADDITIONAL SITE(S) ARE LISTED ON THE NEXT PAGE(S)

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of certification

MANUFACTURE AND TESTING OF LIQUID AND POWDER CHEMICAL PRODUCTS

Original cycle start date: **October 25 1999**

Expiry date of previous cycle: **October 24 2018**

Certification / Recertification Audit date: **October 12 2018**

Certification / Recertification cycle start date: **February 6 2019**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:

October 24 2021

Certificate No. **US012886**

Version: **1**

Signed on behalf BVCH SAS – UK Branch

Certification body address: **5th Floor, 66 Prescott Street, London E1 8HG, United Kingdom**
Local office: **16800 Greenspoint Park Drive, Suite 300S, Houston, TX 77060**

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity please call: **+(800) 937-9311**

Page 1 of 2



BUREAU VERITAS
Certification



VERTRAUEN CHEMIE SOLUTIONS, INC.

APPENDIX TO CERTIFICATE NO. : US012886-1

ISO 9001:2015

Certified Locations

SITE	ADDRESS	SCOPE
VERTRAUEN CHEMIE SOLUTIONS, INC.	2170 BUOY STREET MEMPHIS, TN 30113 USA	MANUFACTURE, TESTING, OF LIQUID AND POWDER CHEMICAL PRODUCTS
MCKINNEY, TX – SITE 2	200 INDUSTRIAL BLVD. MCKINNEY, TX 75069 USA	THE MANUFACTURING AND PACKAGING OF LIQUIDS AND POWDER CHEMICAL PRODUCTS


Certificate No. **US012886** Version: **1**

Signed on behalf BVCH SAS – UK Branch

Certification body address: 5th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: 16800 Greenspoint Park Drive, Suite 300S, Houston, Texas USA

Further clarifications regarding the scope of this certificate and the applicability of the
management system requirements may be obtained by consulting the organisation. To check
this certificate validity please call: +(800) 937-9311



<p style="text-align: center;">DEPARTMENT OF THE TREASURY ALCOHOL AND TOBACCO TAX AND TRADE BUREAU INDUSTRIAL ALCOHOL USER PERMIT</p>	<p>PERMIT NUMBER SDS-TN-20058</p> <p>EFFECTIVE DATE 04/14/2020</p>
<p>VERTRAUEN CHEMIE SOLUTIONS, INC. DBA: VERTRAUEN CHEMIE SOLUTIONS 2170 BUOY ST MEMPHIS, TN 38113</p>	<p>MAXIMUM QUANTITY TO BE WITHDRAWN PER CALENDAR YEAR 500000</p> <p><input checked="" type="checkbox"/> GALLONS <input type="checkbox"/> PROOF GALLONS</p>
<p>You are hereby authorized to:</p> <p><input type="checkbox"/> Withdraw and use alcohol free of tax <input checked="" type="checkbox"/> Withdraw and use specially denatured alcohol/rum</p> <p><input type="checkbox"/> Recover/restore alcohol free of tax <input type="checkbox"/> Withdraw and deal in specially denatured alcohol/rum</p> <p><input type="checkbox"/> Recover/restore and use specially denatured alcohol/rum</p> <p>Operations must be conducted at the above address, subject to applicable law and regulations, the Federal Water Pollution Control Act, and to the conditions set forth below.</p> <p>This permit is continuing and will remain in force unless suspended, revoked, voluntarily surrendered or automatically terminated.</p> <p>This permit is not transferable. In the event of any lease, sale or other transfer of the operations authorized or of any other changes in the proprietorship of such operations, this permit shall automatically terminate unless the successor requalifies by the end of thirty days. If a timely application is filed, the outstanding permit will continue in effect until the application is acted upon by the National Revenue Center or Puerto Rico Operations Office.</p> <p>Tax free alcohol may not be used for any purpose or in any manner not shown on an approved permit application.</p> <p>THIS PERMIT IS SUBJECT TO THE FOLLOWING CONDITIONS:</p> <p style="text-align: center;">GENERAL CONDITIONS</p> <ol style="list-style-type: none"> 1. That the permittee complies with the provisions of 26 U.S.C., Chapter 51 and its regulations. 2. That the permittee has made no false statement as to any material fact in the application for this permit. 3. That the permittee furnishes all the material information required by law and regulations. 4. That the permittee and all persons interested in the permitted operations, shall not violate or conspire to violate any law of the United States relating to intoxicating liquor and shall not be convicted of any offense under the United States Code punishable as a felony or of any conspiracy to commit such an offense. 5. That the permittee continues, by reasons of operations, to be warranted to procure, possess and dispose of/use, as the case may be, specially denatured alcohol/rum or alcohol free of tax. 6. That the permittee timely prepares and maintains at the address stated on this permit, adequate and accurate records and reports as required by 26 U.S.C. 5275 and its regulations, and makes timely, true and complete reports of operations as required by law and regulations. 7. That the permittee has not discontinued the operations authorized by this permit for a period exceeding two years. <p style="text-align: center;">SPECIFIC TAX FREE CONDITIONS</p> <p>That the permittee uses alcohol withdrawn free of tax only for the purposes set forth in this permit and within the conditions and limitations specified in 26 U.S.C. 5214 (a)(2) or (3).</p> <p style="text-align: center;">SPECIFIC SPECIALLY DENATURED ALCOHOL/RUM CONDITIONS</p> <ol style="list-style-type: none"> 1. That the permittee shall use specially denatured alcohol/rum in the manufacture of an article in accordance with an approved formula (including any general use formulas). When using specially denatured alcohol, for laboratory or mechanical purposes, not in the development of a product, use in the manner provided by law and regulations. 2. That the permittee manufactures, labels, advertises and sells or uses articles in the manner provided by law and regulations. 3. That the permittee, if authorized by this permit, recovers completely denatured alcohol, specially denatured alcohol/rum, or articles, in accordance with approved statements of process, in the manner provided by law and regulations. 4. That the permittee shall not dispose of specially denatured alcohol/rum to a user without a valid copy of the user's permit. <p>THIS IS AN <input checked="" type="checkbox"/> ORIGINAL PERMIT <input type="checkbox"/> AMENDED PERMIT</p> <p>REASON FOR AMENDMENT (If applicable) DATE OF AMENDMENT</p> <p>SIGNATURE AND TITLE OF AUTHORIZED TTB OFFICIAL</p> <p>FOR JOHN J. MANFREDI, ADMINISTRATOR </p>	

DEPARTMENT OF THE TREASURY BUREAU OF ALCOHOL, TOBACCO AND FIREARMS INDUSTRIAL ALCOHOL USER PERMIT		PERMIT NUMBER SDA-KY-583(D)						
		EFFECTIVE DATE MAY 11, 1999						
BRENNTAG MID-SOUTH, INC. 1405 Highway 136 West Henderson, KY 42420		MAXIMUM QUANTITY TO BE WITH-DRAWN PER CALENDAR YEAR 1,000,000 GALLONS						
<p>You are hereby authorized to:</p> <table> <tr> <td><input type="checkbox"/> Withdraw and use alcohol free of tax</td> <td><input type="checkbox"/> Recover/restore and use specially denatured alcohol/rum</td> </tr> <tr> <td><input checked="" type="checkbox"/> Withdraw and deal in specially denatured alcohol/rum</td> <td><input type="checkbox"/> Recover/restore alcohol free of tax</td> </tr> <tr> <td></td> <td><input type="checkbox"/> Withdraw and use specially denatured alcohol/rum</td> </tr> </table> <p>Operations must be conducted at the above address, subject to applicable law and regulations, the Federal Water Pollution Control Act, and to the conditions set forth on the back of this permit.</p> <p>This permit is continuing, and will remain in force until suspended, revoked, voluntarily surrendered, or automatically terminated.</p> <p>This permit is not transferable. In the event of any lease, sale or other transfer of the operations authorized, or of any other changes in the proprietorship of such operations, this permit shall automatically terminate unless the successor requalifies by the end of thirty days. If a timely application is filed, the outstanding permit will continue in effect until the application is acted upon by the District Director (Compliance).</p> <p>Tax free alcohol may not be used for any purpose or in any manner not shown on an approved permit application.</p>			<input type="checkbox"/> Withdraw and use alcohol free of tax	<input type="checkbox"/> Recover/restore and use specially denatured alcohol/rum	<input checked="" type="checkbox"/> Withdraw and deal in specially denatured alcohol/rum	<input type="checkbox"/> Recover/restore alcohol free of tax		<input type="checkbox"/> Withdraw and use specially denatured alcohol/rum
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<input checked="" type="checkbox"/> Withdraw and deal in specially denatured alcohol/rum	<input type="checkbox"/> Recover/restore alcohol free of tax							
	<input type="checkbox"/> Withdraw and use specially denatured alcohol/rum							
THIS IS AN ORIGINAL PERMIT <input checked="" type="checkbox"/> AMENDED PERMIT								
REASON FOR AMENDMENT (IF APPLICABLE) NAME CHANGE		DATE OF AMENDMENT JUN 11 2001						
SIGNATURE OF DISTRICT DIRECTOR (COMPLIANCE), BUREAU OF ALCOHOL, TOBACCO AND FIREARMS BY AUTHORITY OF DD <i>Thomas W. Wells</i>								

ATF F 5150.9 (7/85)

DEPARTMENT OF THE TREASURY ALCOHOL AND TOBACCO TAX AND TRADE BUREAU INDUSTRIAL ALCOHOL USER PERMIT		PERMIT NUMBER SDS-KY-585
Brenntag Mid-South, Inc. 1405 Highway 136 West Henderson, KY 42420		EFFECTIVE DATE MAY 11, 1999
		MAXIMUM QUANTITY TO BE WITHDRAWN PER CALENDAR YEAR <div style="text-align: center; margin-top: 10px;"> 1,000,000 </div>
You are hereby authorized to: <input type="checkbox"/> Withdraw and use alcohol free of tax <input type="checkbox"/> Recover/restore alcohol free of tax		<input checked="" type="checkbox"/> Withdraw and use specially denatured alcohol/rum <input type="checkbox"/> Withdraw and deal in specially denatured alcohol/rum <input type="checkbox"/> Recover/restore and use specially denatured alcohol/rum
Operations must be conducted at the above address, subject to applicable law and regulations, the Federal Water Pollution Control Act and to the conditions set forth below. This permit is continuing and will remain in force unless suspended, revoked, voluntarily surrendered or automatically terminated. This permit is not transferable. In the event of any lease, sale or other transfer of the operations authorized or of any other changes in the proprietorship of such operations, this permit shall automatically terminate unless the successor requalifies by the end of thirty days. If a timely application is filed, the outstanding permit will continue in effect until the application is acted upon by the National Revenue Center or Puerto Rico Operations Office. Tax free alcohol may not be used for any purpose or in any manner not shown on an approved permit application. THIS PERMIT IS SUBJECT TO THE FOLLOWING CONDITIONS: <div style="text-align: center; margin: 5px 0;">GENERAL CONDITIONS</div> <ol style="list-style-type: none"> 1. That the permittee complies with the provisions of 26 U.S.C., Chapter 51 and its regulations. 2. That the permittee has made no false statement as to any material fact in the application for this permit. 3. That the permittee furnishes all the material information required by law and regulations. 4. That the permittee and all persons interested in the permitted operations, shall not violate or conspire to violate any law of the United States relating to intoxicating liquor and shall not be convicted of any offense under the United States Code punishable as a felony or of any conspiracy to commit such an offense. 5. That the permittee continues, by reasons of operations, to be warranted to procure, possess and dispose of/use, as the case may be, specially denatured alcohol/rum or alcohol free of tax. 6. That the permittee timely prepares and maintains at the address stated on this permit, adequate and accurate records and reports as required by 26 U.S.C. 5275 and its regulations, and makes timely, true and complete reports of operations as required by law and regulations. 7. That the permittee has not discontinued the operations authorized by this permit for a period exceeding two years. <div style="text-align: center; margin: 5px 0;">SPECIFIC TAX FREE CONDITIONS</div> That the permittee uses alcohol withdrawn free of tax only for the purposes set forth in this permit and within the conditions and limitations specified in 26 U.S.C. 5214 (a)(2) or (3). <div style="text-align: center; margin: 5px 0;">SPECIFIC SPECIALLY DENATURED ALCOHOL/RUM CONDITIONS</div> <ol style="list-style-type: none"> 1. That the permittee shall use specially denatured alcohol/rum in the manufacture of an article in accordance with an approved formula (including any general use formulas). When using specially denatured alcohol, for laboratory or mechanical purposes, not in the development of a product, use in the manner provided by law and regulations. 2. That the permittee manufactures, labels, advertises and sells or uses articles in the manner provided by law and regulations. 3. That the permittee, if authorized by this permit, recovers completely denatured alcohol, specially denatured alcohol/rum, or articles, in accordance with approved statements of process, in the manner provided by law and regulations. 4. That the permittee shall not dispose of specially denatured alcohol/rum to a user without a valid copy of the user's permit. 		
THIS IS AN		<input checked="" type="checkbox"/> ORIGINAL PERMIT
REASON FOR AMENDMENT (If applicable)		<input type="checkbox"/> AMENDED PERMIT
SIGNATURE AND TITLE OF AUTHORIZED TTB OFFICIAL FOR JOHN J. MANFREDA, ADMINISTRATOR		DATE OF AMENDMENT

TTB F 5150.9 (1/2005)

[ADMINISTRATIVELY CORRECTED, EFFECTIVE: OCTOBER 1, 2003]

ABS Quality Evaluations

Certificate Of Conformance

This is to certify that the Quality Management System of:

Brenntag Mid-South, Inc.

Headquarters

**1405 Hwy. 136 West
Henderson, KY 42420
U.S.A.**

(WITH ADDITIONAL FACILITIES LISTED ON ATTACHED ANNEX)

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:

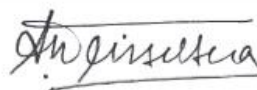
ISO 9001:2015

The Quality Management System is applicable to:

TOLLING, BLENDING, PACKAGING, DISTRIBUTION, WAREHOUSING, AND DELIVERY OF CHEMICALS.

This certificate may be found on the ABS QE Website (www.abs-qe.com). For certificates issued in the People's Republic of China information may also be verified on the CNCA website (www.cnca.gov.cn).

Certificate No:	30523
Certification Date:	08 December 1993
Effective Date:	26 October 2017
Expiration Date:	08 November 2020
Issue Date:	26 October 2017



Alex Weisselberg, President



SAFETY DATA SHEET

DGP High Performance Hand Sanitizer Gel

Product ID: Hand Sanitizer

Revised: 7/27/20
Replaces: 7/24/20

1. IDENTIFICATION

Product Identifier: DGP High Performance Hand Sanitizer
CAS Number: Mixture
Recommended Use: Hand Sanitizer
Restrictions on Use: External, hands only.

Dynamic Green Products, Inc.
11757 Katy Frwy #1300
Houston, TX 77079 USA
(855) 246-6457

EMERGENCY RESPONSE NUMBER:
(800) 222-1222

2. HAZARD(S) IDENTIFICATION

GHS Classification(s): Eye Irritation Category 2A
Flammable Liquid Category 2
Skin Corrosion/Irritation Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

GHS Label Elements:

GHS Hazard Symbols:



Signal Word: Danger
Hazard Statements: Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary Statements:

Prevention: Keep away from heat, sparks, open flames and hot surfaces. – No smoking.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating, and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust, gas, mist, vapors or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

DGP High Performance Hand Sanitizer

Product ID: Hand Sanitizer

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see First Aid on SDS or on this label).

If skin irritation occurs: Get medical advice or attention.

Take off contaminated clothing and wash before reuse.

In case of fire: Use water fog, dry chemical, carbon dioxide, alcohol foam to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store in a secure manner.

Disposal:

Dispose of in accordance with local, regional and international regulations.

Hazards Not Otherwise Classified: May be harmful or fatal if swallowed and enters airways.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances/Mixtures:

<u>Chemical or Common Name/Synonyms</u>	<u>CAS Number</u>	<u>v/v%</u>
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Ethyl Alcohol	64-17-5	72-74 %
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Water	7732-18-5	20-25%
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Glycerin	56-81-5	< 2%
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Tocopheryl Acetate	58-95-7	< 1 %
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Thickener	9004-64-2	< 1 %
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Fragrance	mixture	< 1%
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Note: Any chemical identity and/or exact percentage not expressly stated is being withheld as a trade secret or is due to batch variation.

4. FIRST-AID MEASURES

Description of Necessary Measures:

Eye Contact: If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Remove contact lens if easy to do.

Skin Contact: If on skin: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water. Discard items which cannot be decontaminated. Destroy contaminated leather clothing.

Inhalation: If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY. Keep warm and quiet.

Ingestion: If swallowed: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Most Important Symptoms/Effects, Acute and Delayed:

DGP High Performance Hand Sanitizer

Product ID: Hand Sanitizer

Eye Contact: Causes moderate to severe irritation. May cause: stinging, burning, tearing, redness, light sensitivity, conjunctivitis, corneal damage. Vapors may cause: irritation. Transiently impaired perception of color may occur with acute ingestion or chronic alcoholism.

Skin Contact: Causes mild to moderate irritation. Prolonged and repeated contact with skin can cause defatting and drying of the skin which may result in skin irritation and dermatitis

Skin Absorption: No data available.

Inhalation: May cause moderate irritation. Vapors may irritate: nose, respiratory tract, eyes. Vapors may cause: central nervous system depression. Symptoms may include: burning sensation, headache, dizziness, tremors, nausea, vomiting, drowsiness, faintness, other symptoms similar to ingestion.

Ingestion: May cause mild to severe irritation. May cause: gastrointestinal irritation, nausea, vomiting, diarrhea, central nervous system depression, inebriation, anesthesia, narcosis, coma, respiratory failure, death in significant exposures. Symptoms may include: headache, tremors, fatigue, hallucinations, distorted perceptions, convulsions.

Indication of Immediate Medical Attention and Special Treatment Needed: Symptoms vary with the alcohol level of the blood. Mild intoxication occurs at blood levels between 0.05%-0.15% and approximately 25% of individuals will show signs of intoxication at these levels. Above 0.15% the person is definitely under the influence of ethanol and 50%-95% of individuals at this level are clinically intoxicated. Severe poisoning occurs when the blood ethanol level is 0.3%-0.5%. Above 0.5% the individual will be comatose, and death can occur. The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration. Avoid the use of depressant drugs or the excessive administration of fluids.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog, Dry chemical, Carbon dioxide, Alcohol foam. DO NOT USE: Jet of high-pressure water.

Specific Hazards Arising from the Chemical:

Fire and Explosion Hazards: HIGHLY FLAMMABLE LIQUID. Vapors are heavier than air. Vapors may settle in low or confined areas or travel long distances along the ground or surface to an ignition source where they may ignite, flashback, or explode. Keep away from heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment). **PROCESS HAZARD:** Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Vaporizes easily at normal temperatures. Prevent buildup of vapor to avoid explosive concentrations. Contact with strong oxidizing agents may cause fire. Rags soaked in solvent can present a fire hazard and should be stored in UL listed or Factory Mutual approved, covered containers. Improperly stored rags, under certain conditions can lead to spontaneous combustion.

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide.

Special Protective Equipment and Precautions for Fire-Fighters: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors. If container is not properly cooled, it can rupture in the heat of a fire. Avoid water accumulation. Product may reignite and burn on the water's surface. Move containers from fire area if possible, without hazard. Run-off from fire control may cause pollution.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures: HIGHLY FLAMMABLE LIQUID. Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit.

Methods and Materials for Containment and Clean Up: Contain spill, place into drums for proper disposal. Soak up residue with non-flammable absorbent material. DO NOT use sawdust or other cellulose-type material. Place in non-leaking containers for immediate disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. Ethyl Alcohol is listed on the EPA/TSCA inventory of chemical substances. The Bureau of Alcohol, Tobacco and Firearms has issued regulations governing the production, procurement, and use of Ethyl Alcohol. All users must comply with these regulations. Take precautionary measures against static discharges. Use appropriate grounding and bonding practices. Use non-sparking tools and equipment.

Conditions for Safe Storage, Including any Incompatibilities: HIGHLY FLAMMABLE LIQUID. Store in a cool, well-ventilated area away from all sources of ignition and out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment. Protect against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Expo3sure Guidelines:

<u>Component</u>	<u>Limits</u>
Ethyl Alcohol	1000 ppm TWA; 1900 mg/m ³ TWA
Glycerin	15 mg/m ³

ACGIH Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Ethyl Alcohol	1000 ppm STEL
Glycerin	10 mg/m ³

Engineering Controls: Local exhaust ventilation, process enclosures, or other engineering controls are required when handling or using this product to avoid overexposure. Use explosion-proof ventilation equipment. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Individual Protection Measures:

Eye/Face Protection: Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Wear a full-face respirator, if needed.

DGP High Performance Hand Sanitizer

Product ID: Hand Sanitizer

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Impervious.

Respiratory Protection: None required under normal use with adequate ventilation. If exposure limits are exceeded, wear: NIOSH-Approved air-purifying respirator with: Organic vapor cartridge. NIOSH-Approved Supplied Air Respirator (SAR). NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower. Rubber apron. Chemical safety shoes. Rubber boots. Impervious clothing. Protective clothing.

General Hygiene Conditions: Handle in accordance with good industrial hygiene and safety practice. Wash with soap and water before mealtimes and at the end of each work shift. Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Color: Clear. Colorless.

Odor: Mild citrus odor.

Odor Threshold: N.D.

pH: N.A.

Freezing Point (deg. F): N.D.

Melting Point (deg. F): -20F

Initial Boiling Point or Boiling Range: 180 °F

Flash Point: 68 °F

Flash Point Method: Closed

Evaporation Rate (nBuAc = 1): N.D.

Flammability (solid, gas): N.D.

Lower Explosion Limit: N.D.

Upper Explosion Limit: N.D.

Vapor Pressure (mm Hg): N.D.

Vapor Density (air=1): N.D.

Specific Gravity or Relative Density: .87-.88

Solubility in Water: N.D

Partition Coefficient (n-octanol/water): N.D.

Autoignition Temperature: No Data

Decomposition Temperature: N.D.

Viscosity: N.D.

% Volatile (wt%): N.D.

VOC (wt%): N.D.

VOC (lbs/gal): N.D.

Fire Point: N.D.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions.

DGP High Performance Hand Sanitizer

Product ID: Hand Sanitizer

Conditions to Avoid: Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Avoid other ignition sources.

Incompatible Materials: Alkali metals. Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Eyes. Skin. Inhalation. Ingestion. Absorption.

Symptoms/Effects: Acute, Delayed and Chronic:

Eye Contact: Causes moderate to severe irritation. May cause: stinging, burning, tearing, redness, light sensitivity, conjunctivitis, corneal damage. Vapors may cause: irritation. Transiently impaired perception of color may occur with acute ingestion or chronic alcoholism.

Skin Contact: Causes mild to moderate irritation. Prolonged and repeated contact with skin can cause defatting and drying of the skin which may result in skin irritation and dermatitis. Contact may cause: sensitization.

Skin Absorption: No data available.

Inhalation: May cause moderate irritation. Vapors may irritate: nose, respiratory tract, eyes. Vapors may cause: central nervous system depression. Symptoms may include: burning sensation, headache, dizziness, tremors, nausea, vomiting, drowsiness, faintness, other symptoms similar to ingestion.

Ingestion: May cause mild to severe irritation. May cause: gastrointestinal irritation, nausea, vomiting, diarrhea, central nervous system depression, inebriation, anesthesia, narcosis, coma, respiratory failure, death in significant exposures. Symptoms may include: headache, tremors, fatigue, hallucinations, distorted perceptions, convulsions.

Numerical Measures of Toxicity:

<u>Component</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Ethyl Alcohol	Rat: 2743 mg/kg	Rabbit: >2000 mg/kg	4H Rat: 124.7 mg/L
Glycerin	Rat: 12,600 mg/kg	Rabbit: >10,000 mg/kg	1 H Rat: >570 mg/m ³
Tocopheryl Acetate	5000 mg/kg	3000 mg/kg	No Data

Cancer Information:

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

Medical Conditions Aggravated by Exposure to Product: Liver disorders. Eye disorders. Skin disorders. Central nervous system disorders. Impaired respiratory function. Respiratory system disorders.

Other: Ethyl Alcohol:

Chronic: May cause reproductive and fetal effects. Laboratory experiments have resulted in mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage. Long term exposure can cause loss of appetite, weight loss, nervousness, memory loss, and mental retardation.

12. ECOLOGICAL INFORMATION

DGP High Performance Hand Sanitizer**Product ID: Hand Sanitizer**

Ecotoxicological Information: Acute Aquatic Toxicity (Flathead Minnow, Daphnia, Algae) = Essentially non-toxic (>100 mg/L, Acute Category III)

Chemical Fate Information: Biodegradable. This material is not expected to bioaccumulate. Accidental spillage may lead to penetration in the soil and ground water, however there is no evidence that it will cause adverse ecological effects.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D001

Disposal Method: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):

Identification Number: UN1170
Proper Shipping Name: Ethanol Solutions
Hazard Class: 3
Packing Group: II
Label Required: Flammable Class 3
Reportable Quantity (RQ): None

15. REGULATORY INFORMATION

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category Hazards:

<u>Immediate (Acute)</u>	<u>Delayed (Chronic)</u>	<u>Fire Hazard</u>	<u>Pressure Release</u>	<u>Reactive</u>			
Yes	Yes	Yes	No	No			
Regulated Components:	CAS	CERCLA	SARA	SARA	U.S.	WI	Prop
Component	Number	RQ	EHS	313	HAP	HAP	65
Ethyl Alcohol	64-17-5	No	No	No	No	No	Yes*

***Prop 65 - May Contain the Following Trace Components:**

No data available.

Note: *Ethyl alcohol in alcoholic beverages is listed.

16. OTHER INFORMATION

Hazard Rating System

Health: 2*

Flammability: 3

Reactivity: 0

* = Chronic Health Hazard (Ethyl alcohol in alcoholic beverages is a chronic health hazard.)

NFPA Rating System

Health: 2

DGP High Performance Hand Sanitizer

Product ID: Hand Sanitizer

Flammability: 3
Reactivity: 0
Special Hazard: None

SDS Abbreviations

N.A. = Not Applicable

N.D. = Not Determined

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

C = Ceiling Limit

N.E./Not Estab. = Not Established

SDS Prepared by: LMP

Reason for Revision: Formula update.

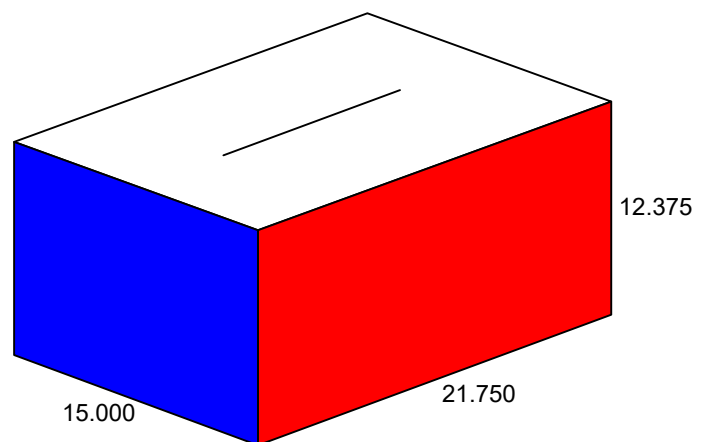
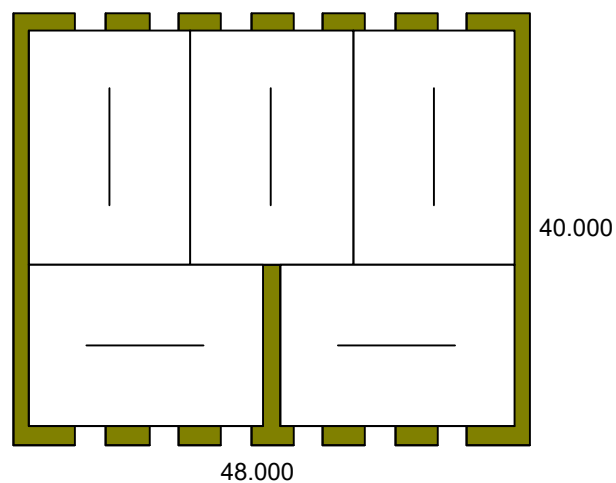
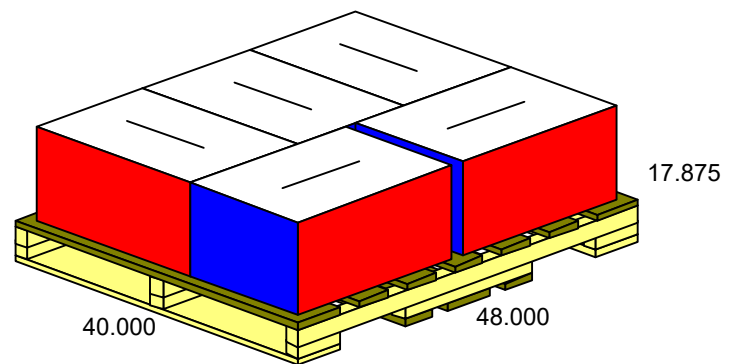
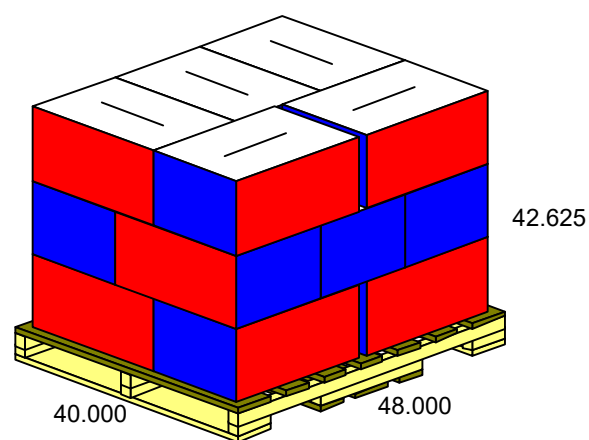
Revised: 7/27/20

Replaces: 7/24/20

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Dynamic Green Products, Inc. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

Product Name	DGP Master Case - (24u) 32oz Hand Sanitizer w/pump		
Product Code	2052 BOX - 4 Inner Cartons (6u each)		
Pallet Units	3 Layers - 360u pallet		
Load Ref.	1 I		
Cube Used	69.3 %	5	Box / Layer
Area Used	85.0 %	3	Layer / Load
Pallet type	48X40	15	Box / Load

	Length	Width	Height	Net	Gross	Volume
Box (OD)	21.750	15.000	12.375 in	50.000	50.000 lb	2.34 cuft
Product	45.000	36.750	37.125 in	750.000	750.000 lb	35.53 cuft
Load	48.000	40.000	42.625 in	750.000	800.000 lb	47.36 cuft

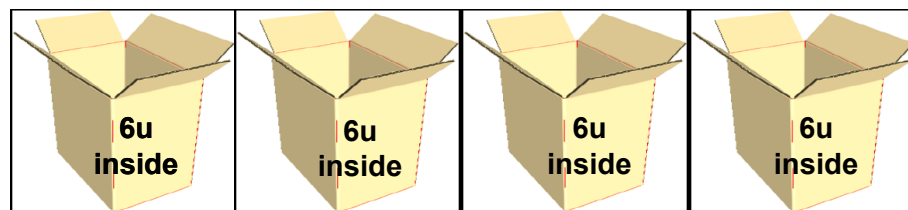


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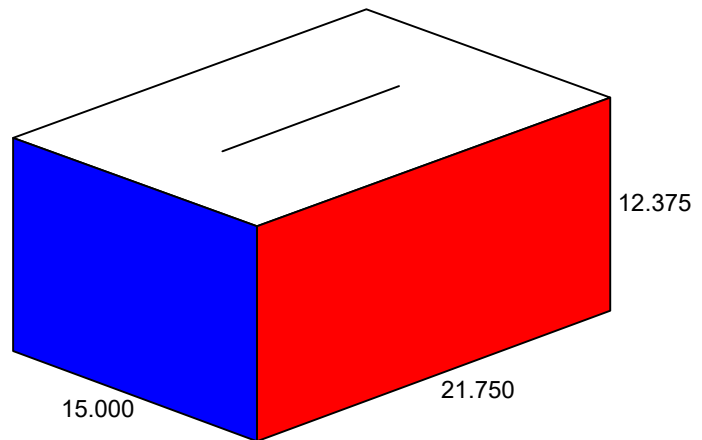
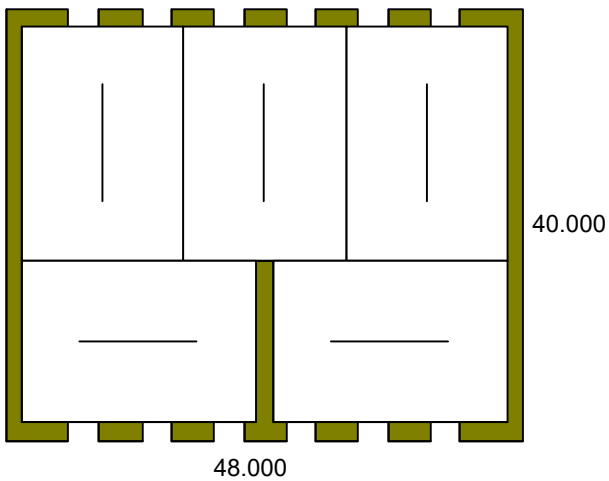
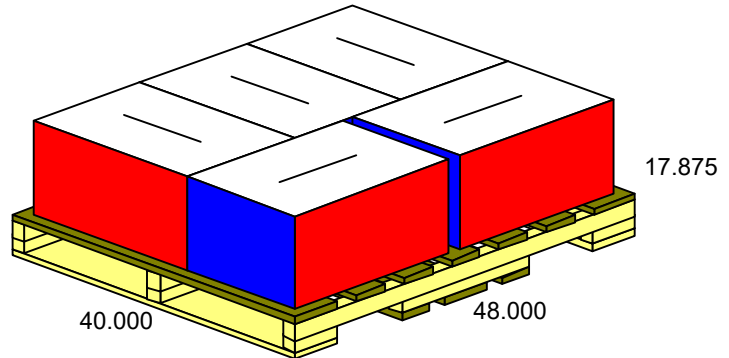
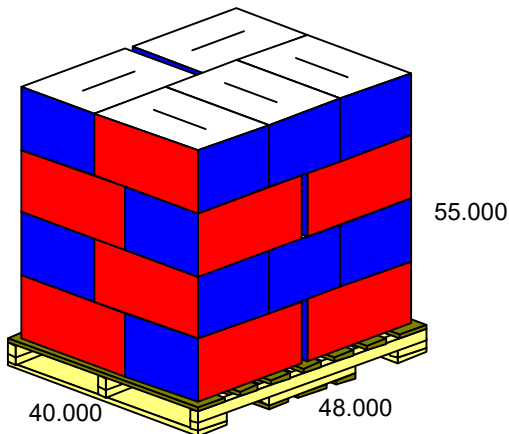
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4 CARTONS of (6) units per MASTER CASE

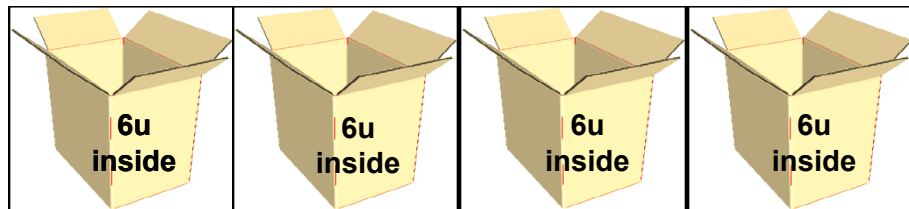
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Product Code	2052 BOX - 4 Inner Cartons (6u each)		
Datafile Name	4 Layers - 480u pallet		
Load Ref.	1 I		
Cube Used	77.2 %	5	Box / Layer
Area Used	85.0 %	4	Layer / Load
Pallet type	48X40	20	Box / Load

	Length	Width	Height	Net	Gross	Volume
Box (OD)	21.750	15.000	12.375 in	50.000	50.000 lb	2.34 cuft
Product	45.000	36.750	49.500 in	1000.000	1000.000 lb	47.37 cuft
Load	48.000	40.000	55.000 in	1000.000	1050.000 lb	61.11 cuft



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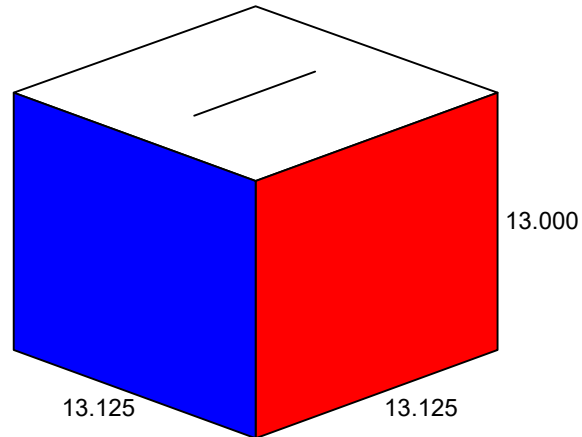
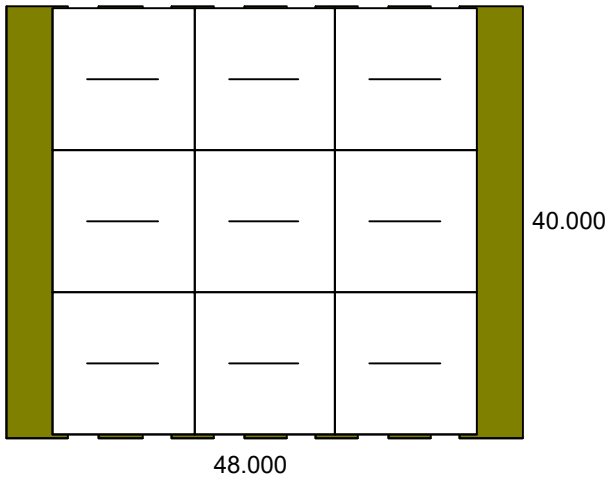
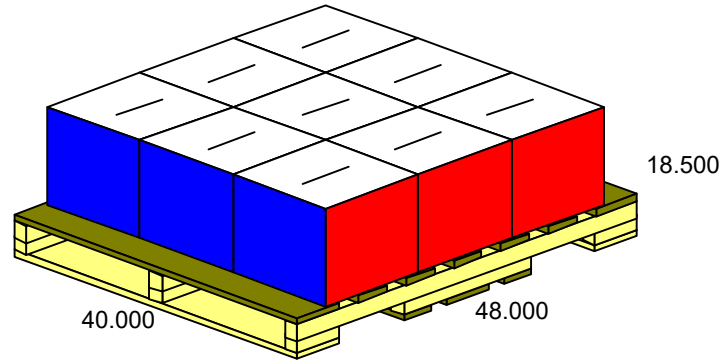
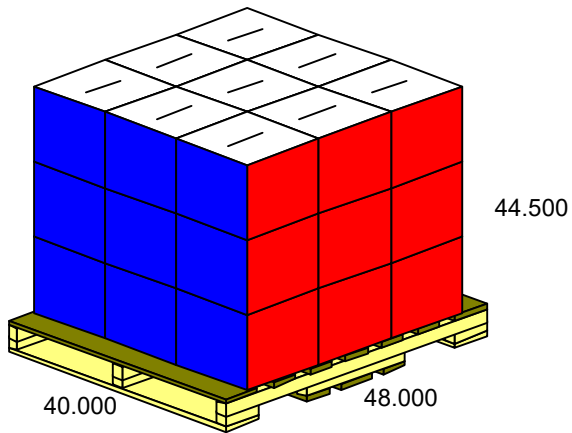
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4 CARTONS of (6) units per MASTER CASE

Product Name	1Gal Round DW		
Product Code	BOX		
Datafile Name	1 gal round dw (6/8/2020)		
Load Ref.	1 C		
Cube Used	70.8 %	9	Box / Layer
Area Used	80.7 %	3	Layer / Load
Pallet type	48X40	27	Box / Load

	Length	Width	Height	Net	Gross	Volume
Box (OD)	13.125	13.125	13.000 in	34.000	34.000 lb	1.30 cuft
Product	39.375	39.375	39.000 in	918.000	918.000 lb	34.99 cuft
Load	48.000	40.000	44.500 in	918.000	968.000 lb	49.44 cuft



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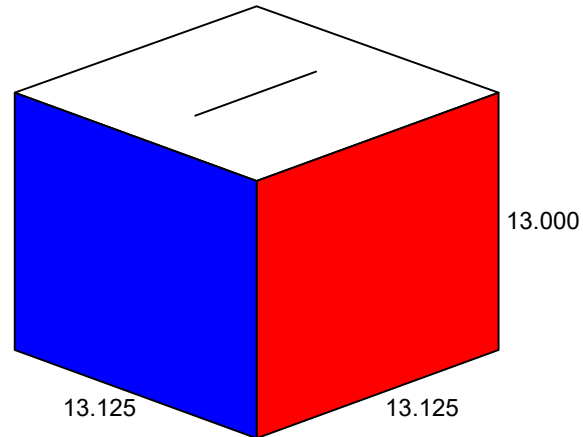
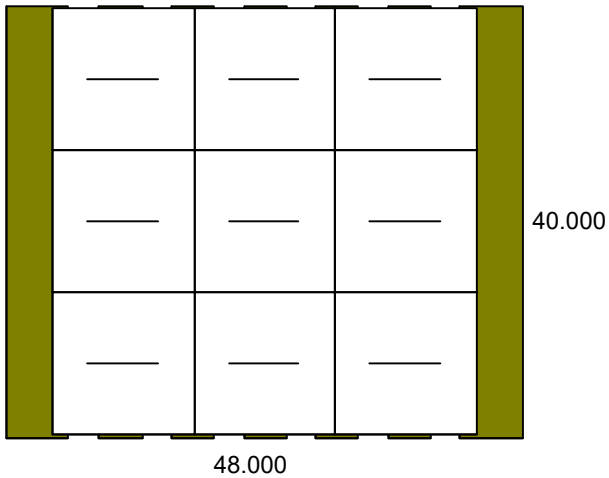
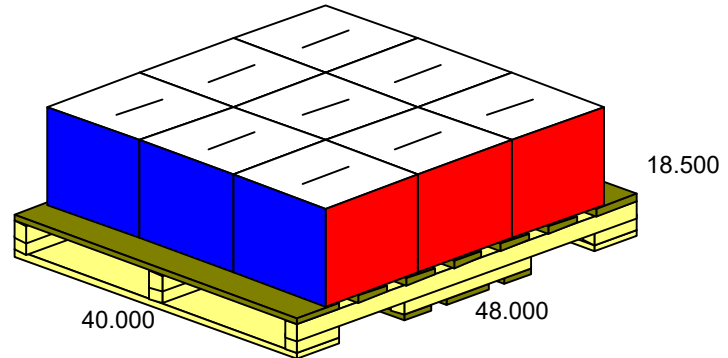
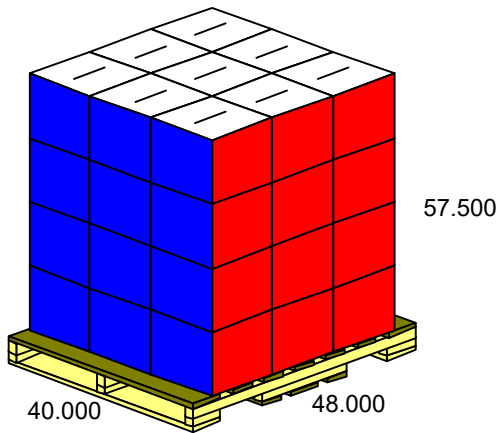
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Product Name	1Gal Round DW		
Product Code	BOX		
Datafile Name	1 gal round dw (6/8/2020)		
Load Ref.	1 C		
Cube Used	77.0 %	9	Box / Layer
Area Used	80.7 %	4	Layer / Load
Pallet type	48X40	36	Box / Load

	Length	Width	Height	Net	Gross	Volume
Box (OD)	13.125	13.125	13.000 in	34.000	34.000 lb	1.30 cuft
Product	39.375	39.375	52.000 in	1224.000	1224.000 lb	46.66 cuft
Load	48.000	40.000	57.500 in	1224.000	1274.000 lb	63.89 cuft



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