



TEST RESULTS

7152

Instant Hand Sanitizer

- **Product Literature**
- Compatibility Test with Instant Hand Sanitizer on Rubber Lineman Gloves
- **Product SDS**



RAINBOW TECHNOLOGY CORPORATION

261 Cahaba Valley Parkway

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www.rainbowtech.net

1-800-637-6047

Rev. Jan 2016

PRODUCT:

INSTANT HAND SANITIZER

INSTANT HAND SANITIZER

7152

THE BASICS:

- *INSTANT HAND SANITIZER* is a waterless antibacterial hand gel with moisturizers, Aloe Vera & Vitamin E.
- Kills 99.99% of germs that may cause illness including, antibiotic resistant Staph Infection (MRSA).
- Sanitizes within 15 seconds of application and reduces risk if infectious disease.
- Protects hands from drying with Aloe & Vitamin E, leaving no stickiness or residue behind.
- May also be used as a disinfectant on other surfaces thought to be contaminated.

APPLICATIONS:

Use *INSTANT HAND SANITIZER* on surfaces including:

- Hands
- Non-Porous Surfaces
- Glass
- Plastic
- Various Metals
- Ceramics



FEATURES	HOW YOU BENEFIT
Non-residual	Leaves hands feeling fresh and germ free
Non-toxic (OSHA standard 29CRF1910.1200)	Will NOT irritate skin or promote dermatitis
Ready to use	No dilution and always effective
Deodorizer	Combats odors

TECHNICAL HIGHLIGHTS:

INSTANT HAND SANITIZER kills 99.99% of germs carried on hands. Transient bacteria, which include pathogen MRSA, VRE, and pseudomonas, are killed using this product.

RELATED PRODUCTS:

Rainbow Technology offers a comprehensive line of products to the utility and telecommunications industries. Users of *INSTANT HAND SANITIZER* often find these other Rainbow products helpful too.

Jungle Formula Insect Repellent (4501, 4508)
Utility Sunscreen (4022, 40225)
KNUCKLES Hand Cleaning Towels (79315, 79316)
CortiCool® (40202)
Poison Oak & Ivy Cleanser (40201, 40204)
Ivy Block® (40203)
Tick & Mosquito Repellent for FR Clothing (4507)
Hantavirus Kit (7172)
Vani-Sol® Disinfectant (7151)
Brief Relief™ (4026)
Mice & Rat Bait (4025)
Havoc® Bait Packs (43550)

MATERIAL SAFETY DATA SHEET:

This product is only for sale to and use by service personnel. MSDS available on request.

PACKAGING:

PRODUCT NUMBER	CONTAINER SIZE	UNITS/ CASE	CASE WEIGHT	CASE SIZE L x W x H
7152	8 oz Bottle	12	7 lbs	8" x 6.5" x 7.5"

ANSWERS TO YOUR QUESTIONS:

Do you have a question about any Rainbow Technology product? Because we've been supplying the utility and telecommunications industries since 1971, our technical support team has the expertise to provide answers and solutions.

Just call us at **1.800.637.6047**.

RAINBOW TECHNOLOGY Specialists in Utility Chemicals

DISTRIBUTED BY

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DALLAS LABORATORIES, INC.

MAR 09 2010

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Submitted by: Rainbow Technology, Inc.
261 Cahaba Valley Parkway
Pelham, AL 35124

Date: March 1, 2010

Attn: Larry Joe Steele

Report No.: 42253

REPORT

Lab Sample No.:

42253 Rainbow Instant Hand Sanitizer (#7152), lot #599207, Exp. 06/12 was contacted with rubber linemans gloves (Type 1, Class 2, ANSI/ASTM D120) to determine if any significant changes occur in the tested properties of the gloves.

PROCEDURE

Tensile Properties

The outer-surface of the glove was rubbed with a liberal amount of Rainbow Instant Hand Sanitizer, wiped off, allowed to stand thusly for 4 hours and then washed with mild soap and warm water. The above procedure was repeated once a day for 3 days. On the fourth day, samples were cut from the cuff areas of the gloves and tested as reported.

Area Swell

Test samples were measured after 24 hour soaks at 75°F in the Rainbow Instant Hand Sanitizer.

AC Electrical Proof Tests

Glove samples exposed to the Rainbow Instant Hand Sanitizer as per tensile property samples but were not cut up. Test was performed at 20 KV @ 3 minutes; maximum proof test current was recorded during last 20 seconds of the test. Pass/Fail criteria is based on a maximum proof test current of 18 mA as dictated by Class 2 and 16" glove length. Clearance from cuff to water line was set at 3 inches. Test was repeated after 16 hour soak in distilled water.

RESULTS

Tensile Properties (ASTM D412, Avg. of 5)

	<u>Control</u>	<u>Rainbow Instant Hand Sanitizer</u>
Tensile Strength, psi		
Initial	2,279	-
After 3 day Exposure	-	2,289
% Change from Initial	-	+0.4%
Initial Aged 7 days @ 158°F	2,743	-
After 3 day Exposure and 7 day aging @ 158°F	-	2,493
% Change from Initial, aged	+20.4%	+9.4%
Ultimate Elongation, %		
Initial	1,169	-
After 3 day Exposure	-	1,164
% Change from Initial	-	-0.4%
Initial Aged 7 days @ 158°F	1,266	-
After 3 day Exposure and 7 day aging @ 158°F	-	1,052
% Change from Initial, aged	+8.3%	-10.0%
500% Modulus, psi		
Initial	686	-
After 3 day Exposure	-	660
% Change from Initial	-	-3.8%
Initial Aged 7 days @ 158°F	734	-
After 3 day Exposure and 7 day aging @ 158°F	-	708
% Change from Initial, aged	+7.0%	+3.2%

Area Swell, % (ASTM D471, Avg. of 3)

24 hour soak	-	0.5%
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AC Electrical Proof Test (ASTM D120)

A)				
Initial – Glove #	<u>1</u>	<u>2</u>	<u>3</u>	
Leakage at 20 KV, mA	12.6	12.4	12.4	
Pass/Fail	Pass	Pass	Pass	
Breakdown Voltage, KV	32.4(FO)	32.0(FO)	32.6(FO)	
Rainbow Instant Hand Sanitizer				
3 day Exposure – Glove #	<u>1</u>	<u>2</u>	<u>3</u>	
Leakage at 20 KV, mA	12.8	12.6	12.7	
Pass/Fail	Pass	Pass	Pass	
Breakdown Voltage, KV	34.6(FO)	35.0 (FO)	34.2 (FO)	

	<u>Control</u>	<u>Rainbow Instant Hand Sanitizer</u>	
B) 16 hour Distilled Water Soak Test			
Initial – Glove #	<u>1</u>	<u>2</u>	<u>3</u>
Leakage @ 20 KV, mA	12.6	12.5	12.6
Pass/Fail	Pass	Pass	Pass
Breakdown Voltage, KV	33.0(FO)	33.2(FO)	32.8(FO)
Rainbow Instant Hand Sanitizer			
(3 day Exposure followed by 16 hour Soak Test)			
Glove #	<u>1</u>	<u>2</u>	<u>3</u>
Leakage @ 20 KV, mA	12.8	12.9	12.8
Pass/Fail	Pass	Pass	Pass
Breakdown Voltage, KV	35.2(FO)	35.0(FO)	35.6(FO)

Note: (FO) Flashover indicates that the arc occurred over, but not through the glove.

DISCUSSION

The samples are slightly affected as to the physical properties, but show no affect as to the AC electrical proof tests. The 0.5% swell indicates that the rubber does "soak up" the Rainbow Instant Hand Sanitizer, but not substantially.

DALLAS LABORATORIES, INC.



Kevan W. Jones, Vice President

Analyst: KJ, GF, TL
KWJ: js



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Woman-Owned Business Enterprise - Founded 1971

Safety Data Sheet (SDS)

SECTION I - IDENTIFICATION

Product Name: Instant Hand Sanitizer

Product No.: 7152

Manufacturer: Rainbow Technology Corporation 1-800-637-6047

Contact: Larry Joe Steeley, Jr.

Emergency Phone No. (24 Hrs.): CHEM-TEL 1-800-255-3924

SDS Issue Date: December 27, 2019

SECTION II - HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable Liquid: Category 2

Eye Irritant: Category 2b

HAZARD STATEMENT(S): **Danger:** Highly flammable liquid and vapor Causes eye irritation.

This product contains the following percentage of chemicals of unknown toxicity: 0%

PRECAUTIONARY STATEMENTS: Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Keep container tightly closed. Wear eye protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire use dry chemical, foam, or carbon dioxide. Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with local, state, and national regulations. Wash hands thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.



SYMBOL:

HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT

Ethyl Alcohol

Isopropyl Alcohol

CAS NUMBER

64-17-5

67-63-0

PERCENT

60%

1-5%

SECTION IV - FIRST AID MEASURES

EYES: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

INGESTION: If swallowed: Rinse Mouth. Do NOT induce vomiting. Get medical advice or attention.

INHALATION: Move to fresh air. If breathing is difficult, administer oxygen. If heartbeat or breathing seems irregular seek immediate medical attention.

SKIN: First aid is not normally required.

ACUTE HEALTH HAZARDS: None Known

CHRONIC HEALTH HAZARDS: None known

NOTE TO PHYSICIAN: There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION V - FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, standard chemical fire extinguisher, and water fog.

UNSUITABLE EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid contact with skin and breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS COMBUSTION PRODUCTS: None Known

Safety Data Sheet (SDS)

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: Absorb with non-combustible material like vermiculite, sand or earth and rinse with small amount of soapy water. Do not allow to drain into sewers or storm drains. Dispose of in accordance with local, state and federal regulations.

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

RCRA STATUS: Product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Store in a well ventilated place. Keep cool. Wear eye protection.

OTHER PRECAUTIONS: None

INCOMPATIBILITY: Strong oxidizing agents.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Ethyl Alcohol	1000 ppm	1000 ppm
Isopropyl Alcohol	500 ppm	400 ppm

ENGINEERING CONTROLS / VENTILATION: General ventilation and local exhaust should be adequate.

RESPIRATORY PROTECTION: Not required with normal use.

PERSONAL PROTECTIVE EQUIPMENT: None

ADDITIONAL MEASURES: Take precautionary measures against static discharge. Wear eye protection. Wash hands thoroughly after handling.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, Colorless Liquid

ODOR: Mild odor

ODOR THRESHOLD: N/D

BOILING POINT: 80°C (176°F)

FREEZING POINT: N/D

FLAMMABILITY: Highly Flammable Liquid

FLASH POINT: 53°F (12°C)

AUTOIGNITION TEMPERATURE: N/D

LOWER FLAMMABILITY LIMIT: N/A

UPPER FLAMMABILITY LIMIT: N/A

VAPOR PRESSURE (mm Hg): Not Established

VAPOR DENSITY (AIR=1): 1

EVAPORATION RATE: < 0.8 (Slow)

SPECIFIC GRAVITY (H2O=1): 0.89 @ 77° F (25° C)

pH: 6-7

SOLIDS (%): N/D

SOLUBILITY IN WATER: 100%

PARTITION COEFFICIENT: n-OCTANOL/WATER (K_{ow}): N/D

VOLATILITY INCLUDING WATER (%): 99%

VOLATILE ORGANIC COMPOUNDS (VOC): 0%

DIELECTRIC STRENGTH (Volts): N/A

DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: N/D

SECTION X – STABILITY AND REACTIVITY DATA

REACTIVITY: None Known

CHEMICAL STABILITY: Stable

Safety Data Sheet (SDS)

CONDITIONS TO AVOID: Sources of ignition.

INCOMPATIBILITY: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of carbon

POSSIBLE HAZARDOUS REACTIONS: None Known

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not Established

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation

EYES: May cause mild irritation.

INGESTION: Not a likely route of exposure under normal product handling conditions.

INHALATION: No hazards with normal use. May cause irritation of the respiratory tract.

SKIN: Product is meant to be applied to skin. If you suspect a reaction discontinue use, take off clothing, and rinse skin immediately with water for 15-20 minutes.

MEDICAL CONDITION AGGRAVATED: Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.

ACUTE HEALTH HAZARDS: None Known

CHRONIC HEALTH HAZARDS: None known

CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not Established

BIODEGRADABILITY: This product is biodegradable.

BIOACCUMULATION: This product is not expected to bioaccumulate.

SOIL MOBILITY: This product is mobile in soil.

OTHER ECOLOGICAL HAZARDS: None Known

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

RCRA STATUS: Product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Flammable liquid, n.o.s., Ltd. Qty.

HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: N/A

PACKAGING GROUP: II

AIR SHIPMENT

PROPER SHIPPING NAME: Flammable liquid, n.o.s., Ltd. Qty.

HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: N/A

PACKAGING GROUP: II

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Flammable liquid, n.o.s., Ltd. Qty.

HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: N/A

PACKAGING GROUP: II

ENVIRONMENTAL HAZARDS WATER: N/A

Safety Data Sheet (SDS)

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA 311/312 HAZARD CATEGORIES: None

SARA 313 REPORTABLE INGREDIENTS: None

CLEAN WATER ACT: None

STATE REGULATIONS: California Proposition 65: None

INTERNATIONAL REGULATIONS: All components are listed or exempted.

NFPA HEALTH: 1

HMIS HEALTH: 1

NFPA FLAMMABILITY: 3

HMIS FLAMMABILITY: 3

NFPA REACTIVITY: 0

HMIS REACTIVITY: 0

NFPA OTHER: None

HMIS PROTECTION: A

SECTION XVI - ADDITIONAL INFORMATION

N/A = Not Applicable; N/D = Not Determined

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