# World Class Cleaning & Hygiene Solutions

# NATIONAL CHEMICAL LABORATORIES, INC.

# SAFETY DATA SHEET

### Section 1 - Identification

Product Identifier **FORTRESS Spray Disinfectant Deodorant** 

Other means of identification 2004-2

Recommended use Spray Disinfectant Deodorant

Recommended restrictions EPA Registered Product. For Commercial and Industrial Use Only. (RTU) Ready-To-Use aerosol.

Manufacturer / Importer / Supplier / Distributor Information

National Chemical Laboratories of PA, Inc. **Company Name** Address 401 N. 10th Street - Philadelphia, PA 19123

Telephone 1 (215) 922-1200 **Supplier Email** info@nclonline.com CHEM-TEL Contact 1 (800) 255-3924 **Emergency Phone** 

### Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

Category

**Physical Hazards** Gases Under Pressure, Compressed Gas

Flammable Aerosols

Health Hazards Eye Irritation Not Classified.

OSHA defined hazards

**Label Elements** 

**Hazard Symbol** 



Signal Word Warning

**Hazard Statement** Causes serious eye irritation; Flammable Aerosol; Contains gas under pressure; may explode if heated

Precautionary statement

Prevention Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves, protective clothing, eye protection

and face protection.

Keep away from heat, sparks, open flames and hot surfaces. — No smoking. Pressurized container: Do not pierce or burn,

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even after use. Do not spray on an open flame or other ignition source

Response 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/attention.

Storage Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Store in a well-ventilated place. Disposal Dispose of waste and residues in accordance with local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

### Section 3 - Composition/Information on ingredients

Mixture

**Hazardous Components** Ingredient Name CAS# Water 7732-18-5 45 - 50 Ethyl Alcohol 64-17-5 30 - 35 Butane 106-97-8 10 - 15 74-98-6 1 - 5 Propane

The exact percentage (concentration) of composition has been withheld as a trade secret. **Composition Comments** 

# Section 4 - First-aid Measures

Inhalation If overcome by vapor, move person to fresh air.

Skin contact Wash skin with soap and water. Get medical attention if irritation develops or persists.

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion Ingestion from an aerosol product is unlikely to occur.

### Most Important symptoms or effects, acute and delayed

Acute, Deliberate inhalation of concentrated vapor or mist may cause headaches. Prolonged and repeated contact with the eves may cause mild irritation.

### Indication of immediate medical attention and special treatment needed

None needed.

# Section 5 - Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO2 or water spray.

Unsuitable extinguishing media

Use water spray or fog; do not use straight streams.

Specific hazards arising from the chemical

Containers are under pressure. Temperatures above 130 °F may cause cans to burst. Thermal decomposition may yield gases

like carbon monoxide and carbon dioxide.

Sensitivity to Mechanical Impact: Contents under pressure, keep away from heat and open flame.

Sensitivity to Static Discharge: Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity).

Special protective equipment and precautions for firefighters Use personal protective equipment as required.

Fire-fighting equipment

/instructions

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use

water spray to keep fire exposed containers cool.

Use standard fire fighting procedures and consider the hazards of other involved materials. Specific Methods

### Section 6 - Accidental release measures

Personal precautions, protective

equipment and emergency procedures.

Methods and materials for

containment and cleaning up

CONTENTS UNDER PRESSURE. Do not puncture or incinerate cans. Keep out of reach of children.

absorbent material.

Methods for Cleaning Up: Clean contaminated surface thoroughly.

See Section 12 for additional Ecological Information. **Environmental precautions** 

### Section 7 - Handling and storage

Precautions for safe handling Conditions for safe storage.

Avoid getting spray into eyes. Keep out of reach of children.

including any incompatibilities

Storage Conditions Store in a cool, dry place away from heat and open flame. Avoid storing at below-freezing

Methods for Containment: Provide adequate ventilation to area being treated. Soak up spills with chemically inert,

temperatures. AEROSOL STORAGE LEVEL I (NFPA-30B).

Incompatible Materials: Avoid heat, open flame and contact with strong oxidizers.

# Section 8 - Exposure control/personal protection

### Occupational exposure limits

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Type Value Form

Butane (CAS 106-97-8) TWA 1000 ppm Ethyl Alcohol (CAS 64-17-5) TWA 1900 mg/m<sup>3</sup>, 1000 ppm

Propane (CAS 74-98-6) PEL 1800 mg/m<sup>3</sup>, 1000 ppm

Propane (CAS 74-98-6) TWA 1000 ppm

**US. ACGIH Threshold Limit Values** 

Component Value Form Type

Ethyl Alcohol (CAS 64-17-5) STEL 1000 ppm Butane (CAS 106-97-8) 1000 ppm TLV Butane (CAS 106-97-8) STEL 1000 ppm Propane (CAS 74-98-6) TLV 1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components Value Type

Butane (CAS 106-97-8) TWA 1900 mg/m<sup>3</sup>, 800 ppm

Ethyl Alcohol (CAS 64-17-5) IDLH 3300 ppm

Ethyl Alcohol (CAS 64-17-5) TWA 1900 mg/m<sup>3</sup>, 1000 ppm Propane (CAS 74-98-6) TWA 1800 mg/m<sup>3</sup>, 1000 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure** guidelines Use personal protective equipment as required. Keep working clothes separately.

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Appropriate engineering

controls

Ventilation should be sufficient to prevent inhalation of any vapors.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Conventional eyeglasses to guard against splashing.

Skin protection

**Hand protection** Household type gloves, if desired.

Other None.

**Respiratory protection** None required if used in a well-ventilated area.

**General hygiene** Normal precautions common in good housekeeping should be followed.

# Section 9 - Physical and chemical properties

Appearance Hazy, yellow liquid.

Physical state Aerosol

Form Aerosol. Liquefied gas.
Color Clear, colorless
Odor Perfumed
Odor threshold Not available.
pH 10.5 ± 0.5
Melting point/freezing point Not available.

Initial boinging point and

boiling range Flash point 212 °F/100 °C (liquid component)

Not avaliable. This is an aerosol product for which Flame Projection is 6-8 inches

without flashback. Cans above 120 °F may burst.

product for which Flame Projection is 6-8 inches without flashback. Temperatures above 120 °F may

cause cans to burst.

**Evaporation rate** Faster than butyl acetate

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Explosive limit - lower (%) No data available. Explosive limit - upper (%) No data available. Vapor pressure No data available. Vapor density No data available. Relative density 0.92 concentrate Not available. Relative density temperature Solubilities (water) Completely soluble. Partition Coefficient n-Not available.

octanol/water

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other Information

VOC's 51.32%

# Section 10 - Stability and reactivity

Reactivity Not applicable Chemical stability Stable.

Possiblity of hazardous reactions Temperatures above 130 °F may cause cans to burst with force. Hazardous polymerization does not occur.

Conditions to Avoid Temperatures above 122 °F (50 °C).

**Incompatible materials** Avoid heat, open flame and contact with strong oxidizers.

Hazardous Decomposition

Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

Products

# Section 11 - Toxicological information

Information on likely routes of exposure

IngestionThis is an aerosol product, ingestion is unlikely to occur. MAY BE HARMFUL IF SWALLOWED.InhalationProlonged inhalation of concentrated vapor or mist may cause headaches, dizziness and nausea.

**Skin contact** No data available.

Eye contact

No data available.

Symptoms related to the physical, chemical and toxicological characteristics Eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and

swelling of the conjunctiva.

### Information on toxicological effects.

Acute toxicity N	May be harmful if swallowed.
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Components	Level	Type	Code	Species	Results
Butane (CAS 106-97-8)	Acute	Inhalation	LC50	Mouse	1237 mg/l, 120 Minutes
	Acute	Inhalation	LC50	Rat	1355 mg/l
Ethyl Alcohol (CAS 64-17-5)	Acute	Dermal	LD50	Rabbit	>2000 mg/kg
	Acute	Dermal	LD50	Rat	10470 mg/kg
	Acute	Inhalation	LC50	Rat	117 - 125 mg/l, 4 h
	Acute	Oral	LD50	Rat	2000 mg/kg
Propane (CAS 74-98-6)	Acute	Inhalation	LC50	Mouse	1237 mg/l, 120 Minutes

Inhalation

LC50

Rat

1355 mg/l 658mg/l/4h

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/ eye irritation

Causes serious eye irritation.

Respiratory sensitization

No data available.

Skin sensitization

This product is not expected to cause skin sensitization.

Acute

Germ cell mutagenicity No data available. Carcinogenicity No data available.

Reproductive toxicity Specific target organ toxicity -

single exposure

No data available. No data available

Specific target organ toxicity -

repeated exposure

No data available

**Aspiration hazard** No data available **Chronic effects** No known effects.

# Section 12 - Ecological Information

### **Ecotoxicity**

### Component(s)

Ethyl Alcohol (CAS 64-17-5)

Aquatic

Level	Туре	Code	Species	Test Results
Acute	Algae	EC50	Freshwater algae (Chlorella vulgaris)	275 mg/l, 72 h
	Crustacea	EC50	Daphnia	9268 mg/l, 48 h
	Fish	LC50	Fathead minnow (Pimephales promelas)	14200 mg/l, 96 h
Chronic	Crustacea	NOEC	Daphnia	9.6 mg/l, 9 d

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water log (Kow)

Components Results Ethyl Alcohol (CAS 64-17-5) -0.31 Butane (CAS 106-97-8) 2.89 Propane (CAS 74-98-6) 2.36

Mobility in soil No data available. Mobility in general No data available. Other adverse effects No data available.

# Section 13 - Disposal considerations

Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your **Disposal instructions** 

local solid waste agency for disposal instructions.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Hazardous waste code

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**Contaminated packaging** Pressurized container: Do not pierce or burn, even after use.

### Section 14 - Transport information

DOT

UN number UN1950

**Proper shipping name** Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es) 2.1

Packing group Not Applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Labels required None/Ninguno

Special provisions N82
Packaging exemption 306

Packaging non bulk None/Ninguno
Packaging bulk None/Ninguno

IATA

UN number UN1950

**UN proper shipping name** Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es) 2.1

Packaging group Not Applicable.

Environmental hazardsYesLabels required2.1ERG Code10L

Special precautions for user

Other Information

Read safety instructions, SDS and emergency procedures before handling.

**Passenger and Cargo** 

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Packaging Exceptions LTD QTY

**IMDG** 

UN number UN1950
UN proper shipping name AEROSOLS
Transport hazard class(es) 2.1

Packaging group Not Applicable.

Environmental hazards
Marine pollutant

No

Labels required 2.1 EmS F-D, S-U

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions LTD QTY

Transportation in bulk Not applicable.

according to Annex II of MARPOL 73/78 and IBC Code

# Section 15 - Regulatory Information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)

Components % by Weight Comment

 Ethyl Alcohol (CAS 64-17-5)
 30 - 35

 Butane (CAS 106-97-8)
 10 - 15

 Propane (CAS 74-98-6)
 1 - 5

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Component Result Comment

Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)

CERCLA Hazardous Substance List (40 CFR 302.4 Not listed.

Components Result Ethyl Alcohol (CAS 64-17-5) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard Yes

Delayed Hazard No
Fire Hazard Yes
Pressure Hazard No
Reactivity Hazard No

SARA 302 Extremely hazardous substance Not regulated.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.
Food and Drug Administration (FDA) Not regulated.

US state regulations

US.Massachusetts RTK - Substance List Components

Ethyl Alcohol (CAS 64-17-5) Butane (CAS 106-97-8) Propane (CAS 74-98-6)

US.New Jersey Worker and Community Right-to-Know Act Components

Water (CAS 7732-18-5) Ethyl Alcohol (CAS 64-17-5) Butane (CAS 106-97-8) Propane (CAS 74-98-6) Components

US.Pennsylvania RTK - Hazardous Substances Compon

Ethyl Alcohol (CAS 64-17-5) Butane (CAS 106-97-8) Propane (CAS 74-98-6) Components

US.Rhode Island RTK Components

Inventory Name

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

**US - California Proposition 65** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This

material is not known to contain any chemicals currently listed as carcinogens or

reproductive toxins.

International Inventories

Country(s) or region	inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notifed Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances	No
Unites States Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

### Section 16 - Other information, including date of preparation or last version

 Issue date
 2/8/2024

 Version #
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**Disclaimer** The information contained herein was obtained from current and reliable sources. However, the data is provided without any

warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

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On Inventory (yes/no)\*

<sup>\*</sup>A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).