
1. Product and Company Identification

Product name **FeelFresh® Hand Sanitizing Spray - 03470**
CAS # Mixture
Product use Topical antiseptic hand cleaner
Manufacturer information NWL Netherlands Services BV
Newell Rubbermaid
Amperestraat 12
2181HB Hillegom, Netherlands
Phone + 31 (0) 252 623 294
Supplier Kruger Products L.P.
200-1900 Minnesota Court
Mississauga, Ontario L5N 5R5 Canada
Emergency Phone: 1-800-328-0026
Fax: 905-812-6910
Phone: 905-812-6900

2. Hazards Identification

Emergency overview FLAMMABLE LIQUID AND VAPOR.
MAY IRRITATE EYES.
Potential short term health effects
Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes May cause irritation.
Skin May cause irritation.
Inhalation May cause respiratory tract irritation.
Ingestion May cause stomach distress, nausea or vomiting.
Target organs Eyes.
Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
OSHA regulatory status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Potential environmental effects See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
ETHANOL	64-17-5	40 - 70

Composition comments Active ingredients are listed above.

4. First Aid Measures

First aid procedures
Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Skin contact Flush with water. In case of skin irritation, discontinue use of product.
Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
Notes to physician Symptoms may be delayed.
General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Flammable by WHMIS/OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air.
Protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Remove sources of ignition. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling	Use according to package label instructions. For external use only. DO NOT get in eyes. Do not ingest. Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Store in a cool, dry, well-ventilated place away from incompatible materials. Store away from heat, flames, sparks, and all other sources of ignition.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

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

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm

Exposure limits	Not applicable
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye / face protection	Not normally required when used as directed.
Hand protection	Not applicable. In case of skin irritation, discontinue use of product.

Skin and body protection	As required by employer code.
Respiratory protection	Not normally required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance	Clear
Color	Colorless
Form	aqueous solution
Odor	Mild
Odor threshold	Not available.
Physical state	Liquid.
pH	6.5
Freezing point	32 °F (0 °C)
Boiling point	> 172.4 °F (> 78 °C)
Pour point	Not available.
Evaporation rate	Not available
Flash point	75.20 °F (24.00 °C)
Auto-ignition temperature	> 698 °F (> 370 °C)
Flammability limits in air, upper, % by volume	< 19 (ethanol)
Flammability limits in air, lower, % by volume	> 3.3 (ethanol)
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	0.91 (Water = 1)
Partition coefficient (n-octanol/water)	Not available.
Solubility (water)	Appreciable
Relative density	Not available.
Viscosity	Slightly Viscous
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with oxidizing agents. This product may react with acids.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Avoid heat, flames, sparks, and all other sources of ignition.
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Toxicological data	Species	Test Results
Components		
ETHANOL (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	31623 ppm, 4 Hours

Components	Species	Test Results
Oral LD50	Dog	5.5 g/kg
	Guinea pig	5.6 g/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg
		6.2 g/kg

Effects of acute exposure

Eye contact	May cause irritation.
Skin contact	May cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	The finished product is not expected to have chronic health effects.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.

ACGIH Carcinogens

ETHANOL (CAS 64-17-5)	A3 Confirmed animal carcinogen with unknown relevance to humans.
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IARC Monographs. Overall Evaluation of Carcinogenicity

ETHANOL (CAS 64-17-5)	Volume 44, Volume 96, Volume 100E 1 Carcinogenic to humans. Volume 96, Volume 100E 1 Carcinogenic to humans.
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US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ETHANOL (CAS 64-17-5)	Carcinogenic.
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US NTP Report on Carcinogens: Known carcinogen

ETHANOL (CAS 64-17-5)	Known To Be Human Carcinogen.
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Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.
Name of Toxicologically Synergistic Products	Not available.

12. Ecological Information

Ecotoxicity	See below
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Ecotoxicological data

Components	Species	Test Results
ETHANOL (CAS 64-17-5)		
Aquatic		
Crustacea	EC50 Daphnia	11744.5 mg/L, 48 Hours
	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50 Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours

Persistence and degradability	Not available.
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Bioaccumulation / Accumulation	Not available
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Mobility in environmental media	Not available.
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Environmental effects	Not available.
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Aquatic toxicity	Not available.
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Partition coefficient		
ETHANOL	-0.31	

Chemical fate information	Not available.
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13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number	UN1170
Proper shipping name	Ethanol, solution
Hazard class	3
Packing group	III
Special provisions	24, B1, IB3, T2, TP1
Packaging exceptions	150

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1170
Proper shipping name	ETHANOL SOLUTION
Hazard class	3
Packing group	III

DOT



TDG



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

ETHANOL (CAS 64-17-5) 1 tonnes

Canada WHMIS Ingredient Disclosure: Threshold limits

ETHANOL (CAS 64-17-5) 0.1 %

WHMIS classification Exempt - Registered product - (NHP 02245702)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ETHANOL (CAS 64-17-5) Listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

ETHANOL (CAS 64-17-5) Listed.

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

Not regulated.

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

Not regulated.

CERCLA (Superfund) reportable quantity

None

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

State regulations See below

US - California Hazardous Substances (Director's): Listed substance

ETHANOL (CAS 64-17-5) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

ETHANOL (CAS 64-17-5) Listed.

US - Illinois Chemical Safety Act: Listed substance

ETHANOL (CAS 64-17-5) Listed.

US - Louisiana Spill Reporting: Listed substance

ETHANOL (CAS 64-17-5) Listed.

US - Minnesota Haz Subs: Listed substance

ETHANOL (CAS 64-17-5) Listed.

US - New Jersey RTK - Substances: Listed substance

ETHANOL (CAS 64-17-5) Listed.

US - Texas Effects Screening Levels: Listed substance

ETHANOL (CAS 64-17-5) Listed.

US. Massachusetts RTK - Substance List

ETHANOL (CAS 64-17-5) Listed.

US. Pennsylvania RTK - Hazardous Substances

ETHANOL (CAS 64-17-5) Listed.

US. Rhode Island RTK

Not regulated.

Inventory status

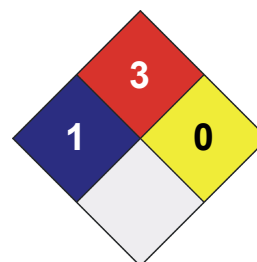
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 1
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

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Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.