

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: FeelFresh® Hand Sanitizing Spray – 03470
Product Use: Hand Sanitizer
Manufacturer: Technical Concepts Bentfield B.V.
Address: Ampèrestraat 12,
2181 HB Hillegom, Netherlands
Telephone Number: +31 (0)252 621221
Fax: +31 (0)252 621171
Supplier: Kruger Products Limited
Address: 200-1900 Mississauga Court
Mississauga, ON L5N 3C9
Telephone Number: 905-812-6900
Fax: 905-812-6910

SECTION 2 – ACTIVE INGREDIENTS

Ingredients	CAS#	Wt%	ACGIH-TLV 8 hr TWA	NIOSH IDLH	LC ₅₀ (4 hr, Rat)	LD ₅₀ (Oral, Rat)
Ethanol	64-17-5	40 - 70	1900 mg/m ³	3300 ppm	31623 ppm	7060 mg/kg

See product label for additional information.

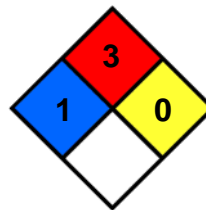
SECTION 3 – HAZARDS

Emergency Overview: FLAMMABLE LIQUID AND VAPOUR. MAY IRRITATE EYES.

WHMIS: Exempt – Registered Product - DIN 02245702

HMIS & NFPA:

HEALTH	* 1
FLAMMABILITY	3
PHYSICAL HAZARD	0
PPE	X



Legend	
Extreme Danger	4
Serious	3
Moderate	2
Slight	1
Minimal	0
Chronic	*

TDG/DOT: ETHANOL SOLUTION, Class 3; UN1170; PG III
(Applicable to ground shipments only. ERGO2008 #127)

Target Organs: Eyes, skin.

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately flush eye(s) with lukewarm, gently flowing water for at least 20 minutes, while holding the eyelid(s) open. Obtain medical attention.

Skin: If irritation develops discontinue use. Flush skin with plenty of water. If irritation persists obtain medical attention.

Inhalation: Move victim to fresh air. Obtain medical attention.

Ingestion: Obtain medical attention immediately. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

Notice: Information for this MSDS was obtained from sources considered accurate and reliable. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. As conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained in accordance with all applicable occupational health and safety requirements. 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 MSDS.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

<p>Physical State: Liquid pH: 6.45 Vapour Density (Air = 1): Not available Volatiles (Wt%): Not available Viscosity: Water thin Solubility in Water: Complete Vapour Pressure: Not available Boiling Point (°C): >78 Odour Threshold (ppm): Not available</p>	<p>Appearance; Odour: Clear, colourless; alcohol Flash Point (°C - TCC): 24 Autoignition Temperature (°C): >370 Evaporation Rate (Ether =1): Not available Upper Explosive Limit (UEL): 19 (ethanol) Lower Explosive Limit (LEL): 3.3 (ethanol) Freezing/Melting Point (°C): Not available Specific Gravity (water =1): 0.91 Coefficient of water/oil: Not available</p>
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SECTION 10 – STABILITY & REACTIVITY

Chemical stability: Stable. Hazardous polymerization will not occur.

Incompatible Materials: Oxidizing agents, acids, bases.

Conditions to Avoid: Avoid heat, flames, sparks, and all other sources of ignition.

Hazardous Decomposition Products: Oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

Routes of Entry: Eyes, Skin, Inhalation, Ingestion

HEALTH EFFECTS FROM ACUTE EXPOSURE:

Eyes: May cause irritation.

Skin: May cause irritation. If symptoms develop discontinue use.

Inhalation: May cause respiratory tract irritation.

Ingestion: May cause central nervous system depression (headache, dizziness, vomiting, unconsciousness, coma and death).

ACUTE TOXICITY DATA:

<u>Chemical & CAS#</u>	<u>RTECS #</u>	<u>Rat - Inhalation 4 hours Lethal Concentration 50%</u>	<u>Rat - Ingestion Lethal Dose 50%</u>
		<u>LC₅₀</u>	<u>LD₅₀</u>
Ethanol (64-17-5)	KQ6300000	31623 ppm	7060 mg/kg

HEALTH EFFECTS FROM CHRONIC EXPOSURE: Prolonged or repeated ingestion of ethanol may damage the liver, kidney, and heart. May cause reproductive effects.

Aggravation of Pre-existing Conditions: Insufficient data available.

Skin: Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Irritancy: May cause irritation.

Sensitization: Insufficient data available.

Reproductive Effects: Ethanol is known to the state of California to cause reproductive toxicity. Ingestion of ethanol has produced fetotoxicity in laboratory animals. Prenatal exposure to ethanol is associated with congenital malformations.

Teratogenicity: Insufficient data available.

Mutagenicity: Insufficient data available.

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Carcinogenicity: Insufficient data available. Contains Ethanol (ACGIH A4: Not classifiable as a human carcinogen. IARC: Animal Inadequate Evidence. ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans).

Toxicologically Synergistic Materials: Not available.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Effects: Not available.

Ecotoxicity data:

<u>Ethanol (64-17-5):</u>	Rainbow trout - 96 hour - LC50: 13000 mg/L
	Fathead minnow - 96 hour - LC50: 15300 mg/L
	Daphnia Magna - 48 hour - LC50: 11853 - 13248 mg/L

Ecofate Data: Not determined.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal: Hazardous. Ignitable Waste. Consult applicable regulations and authorities prior to disposal.

SECTION 14 - TRANSPORTATION

Transportation of Dangerous Goods (TDG) Applicable for ground shipments only. ERGO2008 #127

Proper Shipping Name:	ETHANOL SOLUTION
Class:	3
UN Number:	UN1170
Packing Group:	III



US Department of Transportation (DOT) Applicable for ground shipments only. ERGO2008 #127

Proper Shipping Name:	ETHANOL SOLUTION
Class:	3
UN Number:	UN1170
Packing Group:	III



SECTION 15 - REGULATORY INFORMATION

CANADA: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

Food and Drugs Act and Regulations: REGISTERED PRODUCT - DIN 02245702

WHMIS Classification: Exempt. Refer to product label.

SECTION 16 - OTHER INFORMATION

MSDS Prepared by: TSG Canada Inc. Technical Service. Contact supplier.

Effective Date: November 30, 2008

Expiry Date: November 30, 2011

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