



Material Safety Data Sheet

Vi-Jon Laboratories, Inc.

8515 Page Avenue

St. Louis, MO 63114

Section I: Chemical Identification

Product Name: NBE Clear Gel Hand Sanitizer Product Code: **PN703**

Date Prepared: 11/14/05 Product Use: Sanitizer Manufacturer: Vi-Jon Laboratories, Inc.

FOR MORE INFORMATION CALL: 314-427-1000 **IN CASE OF AN EMERGENCY:** 1-800-424-9300

Section II: Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV	CAS No.	Content
Ethyl Alcohol	TWA 1000 ppm	1000 ppm	64-17-5	62 % v/v
Isopropyl Alcohol	TWA 400 ppm	400 ppm	67-63-0	< 5 % v/v

Section III: Hazards Information

NFPA Hazard Identification

National Fire Protection Association (NFPA) Legend:

HEALTH = 1

FIRE = 3

REACTIVITY = 0

4= EXTREME 3= SERIOUS 2= MODERATE 1= SLIGHT 0= MINIMAL

Emergency Overview: When used according to instructions, this product presents no immediate or long-term health hazard. Accidental ingestion is a possibility. If large amounts are ingested or inhaled, immediate medical assistance may be required. This product is an irritant to the eyes and mucous membranes. This product is flammable, and is a dangerous fire hazard when exposed to heat, sparks, flame, or oxidants. **KEEP AWAY FROM CHILDREN.**

Section IV: First Aid Measures

Skin: In case of skin contact remove contaminated clothing, immediately wash affected area with soap and water. Seek medical attention if contact causes skin to redden, crack; or dermatitis.

Eye: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids wide open. Get prompt medical attention.

Inhalation: If inhaled remove patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, a qualified technician can give oxygen. Get prompt medical attention.

Ingestion: If swallowed, do not induce vomiting unless advised by a physician. Get prompt medical attention.

Section V: Fire and Explosion Hazard Data

Flash Point Lower Flammable Limit Upper Flammable Limit OSHA Flammability Class
71 ° F. 3.3 % v/v 19.0 % v/v Flammable Liquid IB

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, and water spray will reduce intensity.

Unusual Fire and Explosion Hazards: Large quantities are flammable and vapors form explosive mixtures with air. Dangerous when exposed to heat, sparks, flame or oxidants.

Special Fire Fighting Precautions/Instructions: Handle as a flammable liquid. Use water to keep fire exposed tanks cool. Do not enter fire area without proper personal protective equipment to include a self-contained breathing apparatus.

Section VI: Accidental Release Measures

In Case of Spill or Release:

Always wear the proper personal protective equipment. Eliminate all sources of ignition in the vicinity of the spill. Isolate the spill area and contain. Only trained personal fitted with the proper personal protective equipment should be allowed to enter the spill site. Terminate the leak immediately, if possible. Collect the spill in a waste container for disposal. Flush the spill area thoroughly with water. Spill and washings must be contained and prevented from entering a waterway. Product will cause surfaces to be slippery - use caution.

Waste Disposal Method:

Dispose according to federal, state, and local regulations.

Section VII: Handling and Storage

Do not store above 105 °F (26 °C). Keep away from sources of ignition and oxidizing materials. Always use in a well-ventilated area.

Empty containers must be assumed to be hazardous due to residual product.

Section VIII: Exposure Control and Personal Protection

Eye Protection: None required under normal conditions of use.

Skin Protection: None required under normal conditions of use.

Respiratory Protection: None required under normal conditions of use.

Protective Clothing/Equipment: None required under normal conditions of use.

Ventilation: None required under normal conditions of use. Do not use in large amounts in small spaces as vapor concentration could present a fire hazard.

Section IX: Physical and Chemical Properties

<u>Appearance:</u>	Translucent
<u>Physical State:</u>	Gel
<u>Odor:</u>	Citrus Fragrance
<u>Boiling Point:</u>	@ 176°F (80°C)
<u>Flash Point:</u>	71°F (21.6°C) ASTM D 93
<u>Specific Gravity:</u>	0.897 (H ₂ O=1)
<u>Solubility in Water:</u>	Soluble.

Section X: Reactivity Data

	Stable ~ Avoid Freezing
Stability ~ Conditions to Avoid:	_____
Incompatibility ~ Materials to Avoid:	None
Hazardous Decomposition Products:	None
Hazardous Polymerization:	N/A

Section XI: Toxicological Data

Skin: Repeated and prolonged contact of the gel with the skin may cause dryness and erythema (inflammation) for those persons sensitive to ethyl alcohol.

Eyes: Can cause irritation of the eyes and mucous membranes.

Inhalation: Vapor concentration of 2,500-3,000 ppm causes minor irritation of the eyes, nose and throat. Inhalation of higher concentration may cause headache, nausea, confusion, drowsiness, convulsions, and coma.

Ingestion: Ingestion of a toxic dose can cause gastrointestinal irritation, narcosis and injury to the kidneys and liver.

Carcinogenicity:

NTP

IARC Status

OSHA

No ingredients are listed.

Medical Conditions Generally Aggravated by Exposure: Pre-existing eye, skin, and respiratory disorders as well as asthma.

Section XII: Ecological information

No ecological issues are anticipated from normal use. Product is not likely to be environmentally harmful or to present a difficulty for septic, sewage, or water treatment systems.

Section XIII: Waste Disposal

Dispose according to local, state and federal regulations as a flammable liquid.

Section XIV: Transport Information

This product is considered hazardous by transportation regulations.

When transported by Ground or Rail, it is typically shipped as "Consumer Commodity ORM-D".

When transported by Air, it is typically shipped as "Consumer Commodity" or as "Alcohols N.O.S.".

Refer to current regulations for exact requirements for specific shipping applications.

Section XV: Regulatory and Other Information

TSCA: All ingredients are listed.

Product complies with current FDA regulations for cosmetic and/or OTC sanitizing products.

NOTICE

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of this date hereof.

Vi-Jon Laboratories, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Vi-Jon laboratories be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made hereunder with respect to information or the product to which the information refers. The information as supplied herein is simply to be informative and intended solely to alert the use of the substance which is the subject matter of this MSDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.