



MATERIAL SAFETY DATA SHEET

Hand Sanitizer by CN Pharma (Formulation 3)

Section 1. Identification:

Health Canada NPN product identifier: 80097943

SDS #: CNPG-Hand Sanitizer F3

Product type: Liquid

Other Means of Identification: Not Available

Supplier/Manufacturer: Canadian National Pharma Group, Inc., 31270 Wheel Avenue, Abbotsford, B.C. Canada

Telephone number: +1-778-856-1160

Electronic mail address: info@cnpharmagroup.com

Relevant identified uses of the substance or mixture and uses advised:

Hand Sanitizer: This product is safe for users under normal use as a Hand Sanitizer when following the label directions. This SDS contains valuable information for safe handling and proper use within industrial workplace conditions. Health hazard warnings below are for exposure to large quantities of the product not expected during normal use of the product as intended.

Section 2. Hazards Identification:

Classification of the substance or mixture:

FLAMMABLE LIQUIDS - Category 3

Signal word: Danger

Hazard statements: Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation.

Hazard pictograms:



Precautionary statements:

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention: Wear protective gloves. Wear eye/face protection. Wear protective gloves or clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only nonsparking tools. Take precautionary measures against static discharge.

Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Response: *IF INHALED:* Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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 attention.

Fire Response: In case of fire, use CO₂, dry chemical or foam for extinction.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified: None known.



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Other Information: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on Ingredients

Ingredient:

Ethanol (CAS#: 64-17-5):	80 %
Hydrogen Peroxide (CAS#: 7722-84-1):	0-1%
Glycerol (CAS# 56-81-5):	1-5%*

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require no reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

**Concentration range shown as to protect confidentiality or is due to batch variation.*

Section 4. First Aid Measures

General: Show this safety data sheet to the doctor in attendance.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Keep eyes open while rinsing. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Do not rub affected area. Get medical attention, if symptoms persist.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms (skin irritation or allergic reactions) occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.



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Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention (contact emergency medical services). It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Potential acute health Symptoms/effects:

Ingestion: Irritating to mouth, throat and stomach.

Eye contact: Causes serious eye irritation.

Skin contact: Burning Sensation, itching. Rashes. Hives.

Inhalation: May cause respiratory irritation or breathing difficulties. Coughing and/or wheezing.

Over-exposure (delayed) signs/symptoms:

Ingestion: No specific data.

Eye contact: Adverse symptoms may include the following: pain or irritation watering redness.

Skin contact: Burning Sensation, itching. Rashes. Hives.

Inhalation: Adverse symptoms may include the following: respiratory tract irritation coughing.

Statement if immediate medical attention and special treatment is needed*:

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

*See toxicological information (Section 11).

Section 5. Fire-Fighting Measures

Suitable Extinguishing Media: Use dry chemical, CO₂, water spray (fog) or Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing media: Do not use water jet. CAUTION: Use of water spray may be inefficient when fighting fire.



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Special Protective Equipment for Fire-Fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazardous Thermal Decomposition Products: Decomposition products may include the following materials: carbon dioxide and carbon monoxide.

Specific Hazards Arising from the Chemical: Risk of Ignition: Highly flammable liquid and vapor. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Uniform Fire Code: Flammable Liquid: 1-C

Explosion Data: No sensitivity to metal impact; Sensitivity to static discharge.

Section 6. Accidental Release Measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. ELIMINATE/Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Keep people away from or upwind of spill/leak. Pay attention to flashback. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid contact with eyes and clothing. Put on appropriate personal protective equipment.

Environmental precautions: Prevent/Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for Cleaning Up Spills:

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Take Precautionary measures against static discharge. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible,



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absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Handling: Handle in accordance with good industrial hygiene and safety practice. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Do not store near combustible materials. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls/Personal Protection:

Occupational Exposure Limits:

Ethanol (64-17-5):

ACGIH: STEL: 1000 ppm (15 min).

OSHA: TWA: 1000 ppm (8 hours); TWA: 1900 mg/m³ (8 hours).

NIOSH: IDLH: 3300 pp, 10% LEL

Glycerol:

ACGIH/Canada: Form: mist: 10 mg/m³ (8 hours).



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OSHA: TWA: Form: Respirable Fraction: 5 mg/m³ (8 hours); TWA: Form: Total dust Ingredient: 15 mg/m³ (8 hours).

**ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits; NIOSH IDLH Immediately Dangerous to Life or Health*

Personal Protection (Respiratory): No protective equipment is needed under normal use conditions. If a risk assessment indicates this is necessary, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If irritation is experienced, ventilation and evacuation may be required.

Personal Protection (Hands): Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Long Sleeved Clothing.

Personal Protection (Eyes): Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Tight Sealing Safety Goggles.

Personal Protection (Skin): Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Do not eat, drink or smoke when using this product.

Engineering Measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Showers and eye wash stations.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some



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cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9. Physical and Chemical Properties

Physical state: Liquid

Melting point: Not available.

Vapor pressure: Not available.

Relative density: 0.85

Vapor density:

Solubility: Easily soluble in the following materials: cold water and hot water.

Solubility in water: Not available.

Boiling point: Not available.

pH: 6 to 8

Flammability (solid, gas): Not available.

Lower and Upper Explosive (flammable) Limits: Not available.

Burning rate: Not applicable.

Burning time: Not applicable.

Evaporation rate: Not available.

Auto-ignition temperature: Not available.

Flash point: 23°C (73°F).

Decomposition Temperature: Not available.

Partition coefficient: n-octanol/water: Not available.

Elemental Phosphorus: Not available.

VOC content: Not available.

Viscosity: Not available.

Color: Colorless.

Odor: Alcohol [Slight]

Odor Threshold: Not available.

Section 10. Stability and Reactivity

Chemical stability: The product is stable.

Reactivity: No specific test data related to reactivity available for this product or its ingredients.



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Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Hazardous Decomposition Products: Carbon oxides. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Incompatible materials: Not available.

Storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Store locked up.

Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 11. Toxicological Information

Likely Routes of Exposure: Dermal contact. Eye contact. Inhalation.

Potential Acute Health Effects:

Inhalation: May cause respiratory irritation.

Ingestion: Irritating to mouth, throat and stomach. May cause irritation to mucous membranes and gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin contact: Prolonged contact may cause redness and irritation.

Eye contact: Causes serious eye irritation. May cause redness, itching and pain.

Numerical Measures of Acute Toxicity:

Route: Inhalation

Acute Toxicity Estimated Value (Ethanol in Rat): LC50 = 124.7 mg/L.

Route: Dermal



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Acute Toxicity Estimated Value (Glycerin in Rabbit): LD50 = 10 g/kg.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Skin contact: Redness of the skin. Itching, Rashes. Hives.

Ingestion: No specific data.

Inhalation: Adverse Symptoms may include the following: respiratory tract irritation; coughing, wheezing.

Eye contact: Adverse symptoms may include the following: pain or irritation; watering; redness.

Allergic reaction: Symptoms may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Short and Long Term Exposure – Immediate, Delayed and Chronic Effects:

Short term exposure:

Potential Immediate Effects: Not available.

Potential Delayed Effects: Not available.

Long term exposure:

Potential Immediate Effects: Not available.

Potential Delayed Effects: Not available.

Potential Chronic Health Effects:

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other Information on Toxicological Effects of Ingredients:

Product/ingredient name: Ethanol

IARC: (Group 1) The agent is classifiable as to its carcinogenicity to humans through oral consumption.



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Section 12. Ecological Information

Ecotoxicity: Not available.

Aquatic ecotoxicity: Not available.

Persistence and Degradability: Not available.

Bioaccumulation: Not available.

Section 13. Disposal Considerations

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Component Consideration: Ethanol is an ignitable waste.

Section 14. Transport Information

IATA/IMDG/DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information.

Transport Canada: Temporary Certificate: TU 0752

Section 15. Regulatory Information

International Inventories:

Canada (DSL): All components are listed either on the DSL or NDSL.

USA (TSCA): Exempt.

U.S. Federal Regulations:

Clean Water Act Section 122: Not listed as pollutant.

United States inventory (TSCA 8b): All components are listed or exempted.



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Right to Know U.S. State Regulations:

Massachusetts: The following components are listed: Ethanol; GLYCERIN.

New York: None of the components are listed.

New Jersey: The following components are listed: GLYCERIN;

Pennsylvania: The following components are listed: Glycerin

Canadian Regulations: Natural Health Products Regulations.

Canadian NPRI: The following components are listed: Ethanol.

Canadian PCP/DIN Number: Not available.

Canada Inventory: All components are listed or exempted.

International regulations:

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

Ingredient Specific Regulations (U.S.A. Superfund Amendments & Reauthorization Act):

EPA Registration Number: Not available.

SARA 302/304

Product Name: Hydrogen peroxide solution: 0.1 – 1%; EHS - Yes. 1000 lbs 106.1 gallons.

SARA 304 RQ: 471342.4 lbs / 213989.4 kg [65770.8 gal / 248969.7 L]

SARA 311/312

Classification: FLAMMABLE LIQUIDS - Category 3;

SARA 313*

Product name: Ethanol 80%;

CAS number: 64-17-5.



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*SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Section 16. Other Information

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MSDS Version History:

Product Name: Hand Sanitizer by CN Pharma (Formulation 2)

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Date of Previous Issue: No Previous Versions