

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

Product Identifier Hand Sanitizer with Vitamin E and Moisturizers
Formula# 21392 **Chemical Family:** Alcohol, Esters & Alkaloids
Issue Date: December 2009
Product Use Hand Sanitizer
Manufacturer's Apollo Health & Beauty Care
Name & Address 20 Graniteridge Road
 Concord, Ontario, Canada L4K 5M8
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SECTION 2 – HAZARDOUS INGREDIENTS

| Chemical Identity | Concentration | CAS# | LD ₅₀ | LC ₅₀ | Toxicity |
|-------------------|---------------|---------|------------------|------------------|---------------|
| Ethanol | 62.0 % | 64-17-5 | | | Non Hazardous |
| Others | < 5% | | | | Non Hazardous |
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Considered non-hazardous as per WHMIS regulations. Not listed as a carcinogen by ACGIH or IARC.

SECTION 3 – PHYSICAL DATA

Boiling Point: >78.3°C **Melting Point:** Not Available **Freezing Point:** Not Available **Specific Gravity:** Not Available
Vapour Pressure: Ethanol:42 **Solubility in Water:** Complete **Volatility%:** 90% - 100% **Evaporation Rate:** >1.7
Physical State: Liquid **Appearance:** Clear **Odour:** Mild alcoholic odour
Odour Threshold: Ethanol = 0.1 – 5100 **pH:** 6.70 – 7.80 **Viscosity:** 15,000cps – 25,000cps

SECTION 4 – FIRE AND EXPLOSION DATA

Flash Point: 30.2°C **Flash Point Test Method:** PMCC **Auto Ignition Temperature:** Not Available
Lower Flammable Limits: Not Available **Upper Flammable Limit:** Not Available **Flammable:** Yes
Hazardous Combustion Products: Oxides of carbon, nitrogen, and sulfur. Smoke.
Extinguishing Media: Water fog, alcohol foam, dry chemical, or carbon dioxide.
Special Fire Fighting Procedures: Pressure demand self-containing breathing apparatus should be provided to fire fighters in buildings or confined areas where this material is stored.
Unusual Fire and Explosion Hazards: A solid stream of water directed on hot and/or burning product may cause frothing.

SECTION 5 – REACTIVITY DATA

Conditions Contributing to Instability: Normally this product is stable
Incompatibility: Avoid contact with strong oxidizers.
Hazardous Decomposition Products: This material may decompose at a high temperature to form CO, CO₂, ammonia, oxides of nitrogen & sulfur

SECTION 6 – REGULATORY INFORMATION

WHMIS: TDG UN Class 3 UN# 1170 (Non-consumer Commodity) **HAZARD RATING:** HMIS NFPA
Class: D-2B **Shipping Name** ORM-D (Consumer Commodity) **Health** 1 1
 P.I.N.) Not Regulated **Flammability** 3 3
 Prim. Class) Not Regulated **Reactivity** 0 0
 Subs. Class) Not Regulated **PPE** X
 Packing Group) Not Regulated
 Special Prov.) Not Regulated **NFPA Special Hazards:** -

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SECTION 7 – TOXICOLOGICAL PROPERTIES

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| Health Hazard Data: | Eye Irritation Draize (rabbits). Not established |
| Exposure Limits: | None established by OSHA or ACGIH |
| Exposure Limits TLV ppm: | Ethanol: 1000 |
| Eye Contact: | Severe eye irritation. Vapours are also irritating. |
| Skin Contact: | Mildly irritating. May cause dermatitis and scaling. |
| Skin Absorption: | No adverse effects on normal skin. Abraded skin may allow absorption so keep contact minimized. |
| Inhalation: | Inhalation of mist or spray may cause dizziness, nausea & vomiting. Irritation of nose & throat will occur. |
| Ingestion: | May cause dizziness, drowsiness, reduced responsiveness, nausea, euphoria, vomiting, lack of coordination & coma. |
| Effects of Acute Overexposure: | Skin & eye irritation |
| Effects of Chronic Overexposure: | No data |

SECTION 8 – PREVENTATIVE MEASURES

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| Personal Protective Equipment: | |
| Respiratory: | None required under normal conditions of use. |
| Eye: | Face shields and goggles or chemical splash goggles should be worn. |
| Hands: | Gloves of rubber or plastic. |
| Body: | Standard work clothing and work shoes. Shower and eye wash facilities should be accessible. |
| Handling Procedure: | Avoid contact with eyes, skin, and clothing. Avoid breathing mist or spray. Wear chemical splash goggles, gloves, and protective clothing when handling. Use adequate ventilation and employ respiratory protection where spray or mist may be generated. Wash thoroughly after handling. |
| Ventilation Requirements: | Local exhaust ventilation recommended |

SECTION 9 – SPILLS OR LEAK PROCEDURES

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| Leak and Spill Procedure: | Stop the leaks. Clean up spills immediately. Contain large spills and remove using vacuum truck. Soak up small spills with absorbent material and place in labeled waste containers for disposal. Wear adequate protective clothing. |
| Waste Disposal: | Landfill, incineration, or flush down sanitary sewers. All in accordance with local, provincial, and federal regulations. |

SECTION 10 – FIRST AID MEASURES

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| Eyes: | Flush eyes immediately with copious amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention. |
| Skin: | Wash thoroughly with soap and water. Remove contaminated clothing and footwear. Wash clothing prior to reuse. Seek medical attention if irritation should develop. |
| Inhalation: | Remove to fresh air. |
| Ingestion: | DO NOT INDUCE VOMITING. If not unconscious have the victim drink 8oz of water Seek medical help. Never give an unconscious patient anything by mouth. |
| Notes to Physician: | None. |

SECTION 11 – PREPARATION OF INFORMATION

All the information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by APOLLO as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does APOLLO assume any liability arising out of use by others or the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or described when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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