

MATERIAL SAFETY DATA SHEET

MSDS S-107 REVISION 5

DISTRIBUTED BY:

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SUBSTANCE IDENTIFICATION

SUBSTANCE: HAND SANITIZER

TRADE NAMES/SYNONYMS: **PROFESSIONAL DIAL INSTANT HAND SANITIZER; DIAL INSTANT HAND SANITIZER; ALCOHOL GEL HAND SANITIZER**

CHEMICAL FAMILY: Alcohol Gel

I.D. NUMBER: 901765, 901766, 901775

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=3 REACTIVITY=0
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=1 FLAMMABILITY=3 REACTIVITY=0

This product is labeled in accordance with guidelines set forth in the Food, Drug, and Cosmetic Act. The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this Material Safety Data Sheet may differ from the requirements of the FD & C Act and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

HAZARDOUS INGREDIENT INFORMATION

COMPONENT: ETHYL ALCOHOL (ETHANOL) CAS# 64-17-5
1000 ppm (1880 mg/m³) OSHA and ACGIH TWAs

Carcinogen status of components: Not listed as carcinogenic by NTP, IARC, or OSHA.

PHYSICAL AND CHEMICAL DATA

DESCRIPTION: Water white or clear colored gel with a pleasant alcoholic odor.

SOLUBILITY IN WATER: Complete.

VISCOSITY: 7,000 - 12,500 cps

pH: 6.0 - 8.5

SPECIFIC GRAVITY: 0.89

FIRE AND EXPLOSION DATA

FLASH POINT: 76 °F

OSHA FLAMMABILITY CLASSIFICATION: Flammable Liquid Class IC

FIRE AND EXPLOSION HAZARD - Mixture is a flammable liquid. Vapors are heavier than air and may travel to an ignition source.

FIRE FIGHTING MEDIA - Alcohol resistant foam, dry chemical or carbon dioxide. For larger fires, flood with fine water spray or alcohol-resistant foam.

FIRE FIGHTING - FIRE FIGHTING - Shut off all ignition sources. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as fog. Avoid breathing vapors; keep upwind.

HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS:

- INHALATION:** Not an anticipated route of entry. Intentional inhalation of vapors from product may cause central nervous system effects and irritation of the throat and lungs with coughing.
- SKIN CONTACT:** Repeated or prolonged contact may cause irritation or dermatitis.
- EYE CONTACT:** Eye irritant.
- INGESTION:** May be harmful if swallowed. Disulfiram (Antabuse®) reactions such as vomiting, headache, and even collapse, may result from ingestion of small quantities of alcohol and have also been described from skin contact.

SUBCHRONIC/CHRONIC HEALTH EFFECTS:

Due to the nature and composition of this product no subchronic/chronic health effects are anticipated. Nonetheless, the following effects have been reported for one of the product's components.

Ethyl Alcohol: Chronic oral studies in laboratory animals have resulted in effects such as liver damage, teratogenicity, embryotoxicity, and fetotoxicity. The newborns of alcoholic mothers may exhibit fetal alcohol syndrome. Human consumption of alcoholic beverages has been causally related to the occurrence of malignant tumors of the oral cavity, pharynx, larynx, esophagus, and liver. Normal use of this product is not expected to produce these effects.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing respiratory illnesses or skin conditions.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove from exposure area to fresh air immediately. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN CONTACT: Rinse affected area with mild soap and water until no evidence of product remains. Get medical attention if irritation persists.

EYE CONTACT: Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

REACTIVITY

REACTIVITY - Stable under normal temperatures and pressures.

INCOMPATIBILITIES: Strong oxidizers, metals, acids, peroxides, bases, and combustible materials.

DECOMPOSITION - Thermal decomposition may release toxic and/or hazardous gases.

POLYMERIZATION - Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

STORAGE AND DISPOSAL

CAUTION: Flammable liquid. Store away from incompatible substances, excessive heat, flames, sparks or other ignition sources. Observe all federal, state and local regulations when storing or disposing of this substance.

CONDITIONS TO AVOID

Avoid contact with incompatible substances, excessive heat, flames or other ignition sources.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL RELEASE - Shut off ignition sources. Stop leak if you can do it without risk. Use water spray to reduce vapors. Isolate area until vapors have dispersed. No smoking, flames or flares in hazard area! Keep unnecessary people away; isolate hazard area and deny entry. Ventilate closed spaces before entering. Stay upwind; keep out of low areas. For small spills, absorb with sand or other non-combustible material. Containerize for disposal. For large spills, dike for later disposal.

OCCUPATIONAL PROTECTIVE EQUIPMENT

VENTILATION: - Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limit where mists or vapors may be generated. Ventilation equipment should be explosion-proof.

RESPIRATOR - Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS - Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

CLOTHING - Protective clothing is required where repeated or prolonged skin contact may occur.

GLOVES - Protective gloves are required where repeated or prolonged skin contact may occur.

EYE PROTECTION - Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.

REGULATORY INFORMATION

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| DOT FLAMMABILITY CLASSIFICATION: | Flammable liquid (Liters and smaller are classed as Consumer Commodity ORM-D and thus exempt from regulation except when shipped by air). |
| EPA - SARA TITLE III SECTION 313: | Not applicable - Consumer product. |
| TSCA: | All components of this product are listed or are exempted or excluded from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory. |

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MSDS CREATION DATE: 03/31/97

SUPERCEDES: 02/11/99 Rev. 4

REVISION DATE: 07/08/02

REVISION: Update Substance Identification, Physical and Chemical Data, and Fire and Explosion Data.