

National Towelette Company Inc. • 1726 Woodhaven Drive, Bensalem • PA, U.S.A. 19020 • Phone (215) 245-7300

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product identifier: MONK™ INDUSTRIAL HAND CLEANER

Product use: Hand cleaner.

Chemical Family: Mixture of water, alcohols, terpene, surfactants, emollients, and other inert materials.

Supplier's name and address:

National Towelette Company Inc.

1726 Woodhaven Drive

Bensalem, PA, U.S.A.

19020

Emergency Tel.#: 215-245-7300 (8 AM to 5 PM EST, Monday to Friday).

Manufacturer's name and address:

Refer to Supplier.

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredients</u> | <u>CAS #</u> | <u>% (weight)</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
|----------------------------------------------|--------------|-------------------|------------------|-------------|-----------------|-------------|
| | | | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| d-Limonene | 5989-27-5 | 1 - 5 | *30 ppm | N/Av | N/Av | N/Av |
| Ethyl alcohol | 64-17-5 | 1 - 5 | 1000 ppm | N/Av | 1000 ppm | N/Av |
| Polyoxyethylated (4) isodecyl alcohol | 61827-42-7 | 1 - 5 | N/Av | N/Av | N/Av | N/Av |
| Polyoxyethylene (20) sorbitan monolaurate | 9005-64-5 | 1 - 3 | N/Av | N/Av | N/Av | N/Av |

*Note: The ACGIH TLV listed above for d-Limonene is an AIHA WEEL.

OSHA Regulatory Status: This product has been formulated for skin application and is regulated as a cosmetic by the Food and Drug Administration (FDA) under the Federal Food, Drug, and Cosmetic Act. The product, therefore, is not regulated under the OSHA Hazard Communication Standard [Refer to 29 CFR Part 1910.1200(b)(6)(vii)]. However, for informational purposes, this product would be considered a hazardous material as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 3 — HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Milky fluid impregnated into white towelettes, with an orange fragrance.

Warning! May be harmful if inhaled or swallowed in large amounts. Could cause headache, nausea, dizziness or other central nervous system effects. May cause respiratory tract irritation. Direct eye contact causes irritation.

May cause allergic skin reaction in some individuals.

Possible mutagen. Contains material that may cause mutations to genetic material, based on animal data.

POTENTIAL HEALTH EFFECTS

Target organs: Eyes, skin, respiratory system, digestive system, central nervous system.

Routes of exposure: Skin contact, eye contact, inhalation, ingestion.

Signs and symptoms of short-term (acute) exposure:

Inhalation: If high concentrations of vapors or mists are formed, inhalation may cause irritation to the nose, throat and upper respiratory tract. Additional symptoms may include headache, nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

Skin: Direct skin contact may cause mild irritation. Prolonged contact with this product may be more irritating and cause moderate skin irritation.

Eyes: Direct eye contact may cause moderate to severe irritation.

Ingestion: Ingestion may cause irritation in the mouth, throat and stomach. Symptoms may include headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Chronic effects: None reasonably anticipated.

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SECTION 3 — HAZARDS IDENTIFICATION Continued

Conditions aggravated by exposure: Pre-existing skin, eye and respiratory disorders.

Carcinogenic status: See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards: Potential sensitizer and mutagen. For further information, see TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects: See ECOLOGICAL INFORMATION (Section 12).

SECTION 4 — FIRST AID MEASURES

Inhalation: Immediately remove person to fresh air. If breathing is difficult, oxygen may be administered by qualified personnel. Obtain medical attention if irritation develops and persists.

Skin contact: Flush skin thoroughly with running water, while removing contaminated clothing. Obtain medical attention if irritation develops and persists. Launder clothing before reuse.

Eye contact: Immediately flush eyes with running water for a minimum of 20 minutes. Obtain medical attention immediately.

Ingestion: If swallowed, obtain medical attention. Do not induce vomiting, unless directed to do so by qualified medical personnel. Never give anything by mouth to an unconscious or convulsing person.

Note to Physicians: Treat symptomatically.

SECTION 5 — FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability: Not considered to be flammable. Closed containers may build up pressure when exposed to heat.

Flammability classification (OSHA 29 CFR 1910.1200): Non-flammable.

Flash point (Method): N/Av

Auto-ignition temperature: N/Av

Lower flammable limit (% by vol.): N/Av

Upper flammable limit (% by vol.): N/Av

Explosion data: *Sensitivity to mechanical impact / static discharge:* Not expected to be sensitive.

Oxidizing properties: None known.

Suitable extinguishing media: Use media suitable to the surrounding fire, such as foam, carbon dioxide, dry chemical or water fog.

Special fire-fighting procedures/equipment: Do not enter fire area without proper protection. Fire-fighters should wear full protective clothing and a NIOSH approved self-contained breathing apparatus, with a full-face piece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

Hazardous combustion products: Carbon oxides, formaldehyde and other irritating fumes and smoke.

NFPA Rating: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 1 Flammability: 0 Instability: 0 Special Hazard: None

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Refer to Section 8, for additional information on acceptable personal protective equipment.

Environmental precautions: Ensure any spilled product does not enter drains, sewers, waterways or confined spaces.

Spill response/Cleanup: Eliminate all sources of heat, sparks and flame. Ventilate area of release. Stop leak if you can do so without risk. Contain any spilled liquid and absorb with non-combustible absorbent material (such as vermiculite). Place contaminated towelettes and any spilled, absorbed liquid into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Prohibited materials: None known.

Special spill response procedures: None known.

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SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: This material contains a harmful liquid. Wear protective equipment during handling. Use in a well-ventilated area. Avoid vapors or mists. Do not ingest. Avoid contact with eyes. **Avoid wiping on or near the eyes.** Avoid excessive, prolonged contact with skin and clothing. Keep away from extreme heat and direct flame. Keep away from oxidizing agents and other incompatibles (see Section 10). Keep container closed when not in use. Assume empty containers contain residues, which are hazardous. Wash hands before eating, drinking, smoking or use of toilet facilities. Launder contaminated clothing before reuse.

Storage requirements: Store in a cool, dry, well-ventilated area away from sources of heat. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Special packaging materials: Always keep in containers made of the same materials as the supply container.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Use adequate ventilation to maintain air contaminants below exposure limits.

Respiratory protection: Respiratory protection is required if the airborne concentration exceeds the TLV or is not known. Wear NIOSH-approved respirators. Advice should be sought from respiratory protection specialists.

Skin protection and other protective equipment: Protective gloves are not normally required. An eyewash station and safety shower should be made available in the immediate working area.

Eye / face protection: None normally required. **Avoid wiping on or near the eyes.**

General hygiene considerations: Avoid inhaling vapors and mists. Avoid contact with eyes. Avoid prolonged contact with skin. Do not eat, drink or smoke when working. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

Permissible exposure levels: For individual ingredient exposure levels, see Section 2.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical state, odor and appearance: Milky fluid impregnated into white towelettes, with an orange fragrance.

Odor threshold: N/Av.

Specific gravity: 0.9665

Vapor pressure: N/Av.

Boiling point: N/Av

Evaporation rate (n-Butyl acetate = 1): N/Av.

Coefficient of water/oil distribution: N/Av

Solubility in water: Soluble.

Vapor density (Air = 1): N/Av

Freezing point: N/Av.

pH: 5.2 ± 0.5

Volatiles (% by weight): N/Av.

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Stable under the recommended storage and handling conditions.

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid extreme heat, direct flame and contact with incompatible materials.

Materials to avoid (incompatibles): Strong oxidizers (e.g. Chlorine, Peroxides, etc.), strong acids (e.g. Sulfuric acid).

Hazardous decomposition products: None known. Refer to 'Hazardous Combustion products', Section 5.

SECTION 11 — TOXICOLOGICAL INFORMATION

Toxicological data: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

| Ingredients | LC ₅₀ (4hr) inh, rat | LD ₅₀ (mg/kg) | |
|-------------------------------------------|------------------------------------|--------------------------|----------------|
| | | oral, rat | dermal, rabbit |
| d-Limonene | Not available | 4400 | > 5000 |
| Ethyl alcohol | 21,000 ppm | 7060 | Not available |
| Polyoxyethylated (4) isodecyl alcohol | Not available | Not available | Not available |
| Polyoxyethylene (20) sorbitan monolaurate | Not available | 36,700 µL/kg | Not available. |

Carcinogenic status: None of the ingredients listed are classified as carcinogenic by IARC, ACGIH, NTP or OSHA.

Reproductive effects, Teratogenicity, Mutagenicity: This product contains Ethyl alcohol. Ethanol may cause mutations to germ (reproductive) cells and somatic (non-reproductive) cells, based on animal data.

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SECTION 11 — TOXICOLOGICAL INFORMATION Continued

Sensitization to material: Prolonged or repeated contact may cause skin sensitization (contact allergic dermatitis) in some individuals, with symptoms including swelling, rash and eczema.

Other important hazards: CNS depression may result from extreme exposures.

Synergistic materials: Not available.

SECTION 12 — ECOLOGICAL INFORMATION

Chemical fate information: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. Do not discharge product unmonitored into the environment.

Ecotoxicological information: There is no data available on the product itself.

SECTION 13 — DISPOSAL CONSIDERATIONS

Handling for disposal: Empty containers may contain product residue or vapors. Handle according to recommendations listed in Section 7.

Methods of disposal: Dispose in accordance with all applicable federal, state, provincial and/or local regulations. Contact your local, state, provincial and/or federal environmental agency for specific rules.

RCRA: Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 — TRANSPORTATION INFORMATION

US 49 CFR information: This product, as supplied, is not regulated for transport by ground within the Continental US.

Canadian Transportation of Dangerous Goods Regulations (TDGR) information: This product, as supplied, is not regulated for transport by ground within Canada.

SECTION 15 — REGULATORY INFORMATION

US Federal Information:

TSCA information: All listed ingredients are present on the TSCA inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported

SARA TITLE III:

Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present.

Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute); Delayed (Chronic).

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

US State Right to Know Laws:

California Proposition 65: This product does contain Ethyl alcohol, which is known to the State of California to cause developmental harm. However, this listing is only applicable when the chemical is present in alcohol beverages.

New Jersey Labeling Requirements: This product contains the following substances that may be required to be disclosed on product labeling:

| Chemical Name | CAS # | % (weight) | New Jersey Hazardous Substance |
|-------------------------------------------|------------|------------|--------------------------------|
| Water | 7732-18-5 | 80 - 90 | No |
| d-Limonene | 5989-27-5 | 1 - 5 | No |
| Ethyl alcohol | 64-17-5 | 1 - 5 | Yes |
| Polyoxyethylated (4) isodecyl alcohol | 61827-42-7 | 1 - 5 | No |
| Polyoxyethylene (20) sorbitan monolaurate | 9005-64-5 | 1 - 3 | No |
| Lanolin ethoxylated | 8039-09-6 | < 2 | No |

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SECTION 15 — REGULATORY INFORMATION Continued

International Information:

Canadian WHMIS Classification: This product is not a WHMIS Controlled Product. This product is regulated under the Food and Drugs Act & Regulations. However, for information purposes, this product would have the following WHMIS classification: **Class D2A** (*Materials Causing Other Toxic Effects, Very Toxic Material*), **Class D2B** (*Materials Causing Other Toxic Effects, Toxic Material*).

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.

Canadian CEPA information: All listed ingredients are present on the DSL.

SECTION 16 — OTHER INFORMATION

HMIS Rating: * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
Health: *1 Flammability: 0 Reactivity: 0

Prepared by: National Towelette Inc.

Telephone No.: 215-245-7300

Preparation date: October 3, 2006

- References:**
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
 2. International Agency for Research on Cancer Monographs, searched 2006.
 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2006 (Chempendium and RTECs).
 4. US EPA Title III List of Lists – January 27, 2005 version.
 5. California Proposition 65 List – September 29, 2006 version.

Legend: ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CAS: Chemical Abstract Services

CERCLA: US Comprehensive Environmental Response, Compensation, and Liability Act of 1980

CFR: US Code of Federal Regulations

DOT: US Department of Transportation

DSL: Canadian Domestic Substances List

EPA: US Environmental Protection Agency

EST: Eastern Standard Time

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

N/Ap: not applicable

N/Av: not available

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RCRA: US Resource Conservation and Recovery Act

SARA: US Superfund Amendments & Reauthorization Act

STEL: Short Term Exposure Limit

TLV: Threshold Limit Values

TSCA: Toxic Substance Control Act

TWA: Time Weighted Average

WEEL: Workplace Environmental Exposure Level

WHMIS: Canadian Workplace Hazardous Materials Identification System

END OF DOCUMENT