



**SAFETY-KLEEN PROFESSIONAL
HEAVY DUTY HAND WIPES
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Safety-Kleen PROfessional Heavy Duty Hand Wipes

SYNONYMS: Not available.

PRODUCT CODE: 32644

PRODUCT USE: Wiper for cleaning heavy duty soils from hands, tools, and work areas.
If this product is used in combination with other products, refer to the Material Safety Data Sheets for those products.

This number is for emergency use only. If you desire non-emergency product information, please call a phone number listed below.

**24-HOUR EMERGENCY PHONE NUMBER
MEDICAL AND TRANSPORTATION (SPILL):**

1-800-468-1760

SUPPLIER: Safety-Kleen Systems, Inc.
5360 Legacy Drive
Building 2, Suite 100
Plano, Texas 75024
USA
1-800-669-5740
www.Safety-Kleen.com

TECHNICAL INFORMATION: 1-800-669-5740 Press 1 then 1, then Extension 7500

MSDS FORM NUMBER: 820068

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PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

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SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Milky liquid on a paper wipe with an orange odor.

CAUTION!

For external use only.

HEALTH HAZARDS

May be harmful if swallowed.

May irritate the eyes.

May irritate the skin. Contains a component which may cause allergic skin reactions in sensitive individuals

ENVIRONMENTAL HAZARDS

A component in this product is harmful to the environment.

OSHA Regulated Chemicals

No information is available.

POTENTIAL HEALTH EFFECTS

**INHALATION
(BREATHING):** May cause irritation to the upper respiratory tract.

EYES: May cause irritation.

SKIN: May cause irritation. May cause allergic skin reactions in sensitive individuals.

**INGESTION
(SWALLOWING):** May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea.

**MEDICAL CONDITIONS
AGGRAVATED BY EXPOSURE:** Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis) and allergic skin reactions.

**CANCER
INFORMATION:** No known carcinogenicity. For more information, see **SECTION 11: CARCINOGENICITY**.
Also see **SECTION 15: CALIFORNIA**.

POTENTIAL ENVIRONMENTAL EFFECTS

A component in this product is harmful to the environment. Also see **SECTION 12: ECOLOGICAL INFORMATION**.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component	Synonym	Wt. Percent
5989-27-5	Menthadiene	D-Limonene	<7*

* Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

SECTION 4: FIRST AID MEASURES

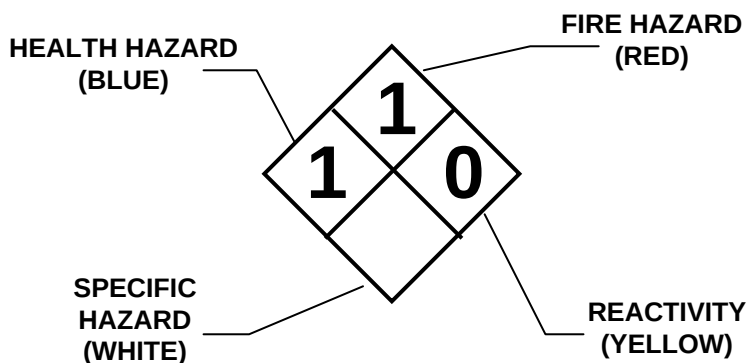
INHALATION (BREATHING):	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.
EYES:	Immediately flush eyes with plenty of water, holding eyelids apart, for 15 minutes. Get medical attention.
SKIN:	Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists.
INGESTION (SWALLOWING):	Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. Have victim rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
NOTE TO PHYSICIANS:	Treat symptomatically and supportively. Call 1-800-468-1760 for additional information.

SECTION 5: FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS:	Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide, and unidentified organic compounds.
CONDITIONS OF FLAMMABILITY:	Sparks or flame.
PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:	A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.
EXTINGUISHING MEDIA:	Water spray, chemical foam, dry chemical, CO ₂ .
NFPA 704 HAZARD IDENTIFICATION:	This information is intended solely for the use by individuals trained in this system.

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FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray.

FIRE AND EXPLOSION HAZARDS: Heated containers may rupture. "Empty" containers may retain residue and can be dangerous.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or absorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING: Keep product from freezing. Keep away from sparks, or flame. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product. Do not mix with strong oxidants, acids or alkalis.

SHIPPING AND STORING: Keep container tightly closed when not in use and during transport. Store containers in a well ventilated area. Keep containers away from sparks and flame. Empty product containers may retain product residue and can be dangerous. Keep separated from incompatible substances.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

ENGINEERING CONTROLS: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection; not normally required for ambient air concentrations not exceeding the Occupational Exposure Limit.

EYE PROTECTION: Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

SKIN PROTECTION: Where skin contact is likely, use chemical resistant gloves.

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

PERSONAL HYGIENE: Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using these products should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR: Milky liquid on a paper wipe with an orange odor.

ODOR THRESHOLD: Not available

MOLECULAR WEIGHT: Not applicable

SPECIFIC GRAVITY: 1.01 (water = 1)

DENSITY: Not available

VAPOR DENSITY: Not available

VAPOR PRESSURE: 0.1 mm Hg @ 20°C

BOILING POINT: 392-446°F (200-230°C)

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FREEZING/MELTING POINT: Not available

pH: 6.5-7.5

EVAPORATION RATE: Not available

SOLUBILITY IN WATER: Complete.

FLASH POINT: 235°F (112°C) PMCC

FLAMMABLE LIMITS IN AIR: **LOWER:** Not available
UPPER: Not available

AUTOIGNITION TEMPERATURE: 698°F (370°C)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures.

CONDITIONS TO AVOID: Spark, flame and incompatible materials.

INCOMPATIBILITY: Incompatible with strong oxidants, acids, alkalis.

REACTIVITY: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition and combustion materials may be toxic. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA:

Component Analysis - LD50/LC50
Menthadiene (5989-27-5)
Oral LD50 Rat 4400 mg/kg
Dermal LD50 Rabbit >2000 mg/kg

ACUTE EFFECTS: May cause irritation to the eyes, skin and upper respiratory tract. A component in this product may cause skin sensitization in sensitive individuals.

REPEATED DOSE EFFECTS: Prolonged or repeated inhalation may cause toxic effects as noted under **ACUTE EFFECTS** for inhalation. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

Based on best current information, there is no known reproductive toxicity

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associated with this product.

Based on best current information, there is no known teratogenicity associated with this product.

Based on best current information, a component in this product may cause skin sensitization.

Based on best current information, there is no known mutagenicity associated with this product.

CARCINOGENICITY:

Based on best current information for the components in **Section 3**, there is no known carcinogenicity as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

Also see **SECTION 15: CALIFORNIA**.

TARGET ORGAN EFFECTS:

Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

A component in this product is harmful to the environment.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Menthadiene (5989-27-5)

Test & Species	Results	Conditions
96 Hr LC50 Pimephales promelas	0.619-0.796 mg/L	flow-through
96 Hr LC50 Oncorhynchus mykiss	35 mg/L	

PERSISTENCE/ DEGRADABILITY:

No information available for the product.

BIOACCUMULATION/ ACCUMULATION:

No information available for the product.

MOBILITY IN ENVIRONMENTAL MEDIA:

No information available for the product.

OTHER ADVERSE EFFECTS:

A component in this product is harmful to the environment.

OCTANOL/WATER PARTITION

Not available

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COEFFICIENT:

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

USEPA WASTE CODE(S): This product, if discarded, is not expected to be a characteristic or listed hazardous waste. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

SECTION 14: TRANSPORT INFORMATION

DOT: **Shipping Name:** Not regulated.

TDG: **Shipping Name:** Not regulated.

EMERGENCY RESPONSE GUIDE NUMBER: Not applicable.

SECTION 15: REGULATORY INFORMATION

VOLATILE ORGANIC COMPOUNDS (As Regulated):

7.6 WT%; 0.6 LB/US gal; 72 g/L as per 40 CFR Part 51.100(s)
Product Vapor Pressure @20°C = 0.1 mmHg
Product contains photochemically reactive solvents (<7% by volume)

USA REGULATIONS

OSHA **OSHA Regulated Chemicals**
No information is available.

SARA SECTIONS 302 AND 304: Based on the ingredients listed in **SECTION 3**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTIONS 311 AND 312: This product poses the following health hazards as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):
Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard

SARA SECTION 313: This product does not contain "toxic" chemicals subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA: Based on the ingredients listed in SECTION 3, this product does not contain any

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"hazardous substances" listed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA: All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product does not contain detectable amounts of any chemical known to the State of California to cause cancer.

This product does not contain detectable amounts of any chemical known to the State of California to cause birth defects or other reproductive harm.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

SECTION 16. OTHER INFORMATION

REVISION INFORMATION: New MSDS.

LABEL/OTHER INFORMATION: Not available.

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.