MATERIAL SAFETY DATA SHEET

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Complies with OSHA's 29 CFR 1910.1200 and State Hazard Communication Standards

Medical Emergency Telephone (716) 288-2283 or INFOTRAC 1-800-535-5053

SECTION 1

PRODUCT IDENTITY: **JIFFY, Spray Cleaner**

DATE PREPARED: 6/19/98

NFPA/HMIS HAZARD CODES (minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
Health: 2/2 Fire: 0/0 Reactivity: 1/1 Special/Protective Equipment: A/N/B

DOT: Corrosive liquid, basic, inorganic n.o.s. (Potassium hydroxide), 8, UN3266, III (Consumer Commodity ORM-D in gallons or less)

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA-PEL	ACGIH-TLV	% BY WT.
Potassium hydroxide	1310-58-3	2 mg/M³ (ceiling)	2 mg/M³ (ceiling)	less than 1
Diethylene glycol butyl ether*	112-34-5	None Est.**	None Est.**	5
Sodium carbonate	497-19-8	None Est.	None Est.	5 max.
Nonylphenol ethoxylate	9016-45-9	None Est.	None Est.	1 max.

Product is a water solution of the above ingredients.

* SARA Title III Section 313 reportable as Glycol Ether category.
** Supplier recommendation 35 ppm.

SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 212°F
VAPOR PRESSURE: As water
VAPOR DENSITY (air = 1): As water
SOLUBILITY IN WATER: Complete
APPEARANCE AND ODOR: Yellow-green liquid; slight glycol ether odor.

SPECIFIC GRAVITY: 1.04 ± 0.01
PERCENT VOLATILE: 95 (approx.)
EVAPORATION RATE: As water
pH: 12.5 - 13.5

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None
FLAMMABLE LIMITS: Not Applicable
EXTINGUISHING MEDIA: As appropriate for surrounding fire (product will not burn).
SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS: As any strong alkaline material: in water solution, can react with aluminum, zinc or other soft metals, generating hydrogen. This gas is flammable and/or explosive in the presence of an ignition source. Avoid prolonged wetting or soaking of soft metals; brief, incidental contact such as overspray is not expected to present a hazard.

SECTION 5: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None
INCOMPATIBILITY: Do not mix with acid solutions; neutralizes active ingredients. Use on aluminum, tin or zinc-plated (galvanized) surfaces may cause pitting or surface deterioration.
HAZARDOUS DECOMPOSITION PRODUCTS: None

MSDS FORM: 259F (6/19/98)

X2830

SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY/SIGNS AND SYMPTOMS OF EXPOSURE: ACUTE: Eyes: As any strong alkaline liquid, causes severe irritation, may cause eye burns, possible permanent damage. Skin: Prolonged contact with liquid may cause irritation or burns which are not immediately painful or visible. Glycol ether component can be absorbed through skin; harmful amounts not expected in normal use. Inhalation of vapors or mists may cause nose and respiratory irritation; irritation or possible headache, nausea or dizziness. Ingestion: Nausea, vomiting, diarrhea; may cause irritation or burns to mucous membranes of mouth, throat and digestive tract.
CHRONIC EFFECTS: Dermatitis; possible respiratory effects from excessive inhalation of mists. Long-term overexposure to some glycol ethers by skin absorption or inhalation may cause kidney, liver or blood effects based on animal testing.
CARCINOGENS: None listed under OSHA, IARC, or NTP.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory or skin disorders.
EMERGENCY AND FIRST AID PROCEDURES: Eyes: Immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure complete rinsing. Promptly remove contact lenses if worn. Get immediate medical attention. Skin: Immediately flush with water for 15 minutes while removing all contaminated clothing and shoes. Continue rinsing until "slippery" feeling is gone. Get prompt medical attention if irritation or burns develop. Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention if irritation persists. Ingestion: DO NOT INDUCE VOMITING. Give a glass of water or milk to dilute. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES: SMALL SPILLS: Flush down drain with water or mop up. LARGE SPILLS: Cleanup personnel should wear appropriate protective equipment. Contain spill. Reclaim as much as possible. Absorb remainder with inert material and place in suitable containers for disposal. Flush residue with large amounts of water.

Releases of glycol ethers may be CERCLA reportable.

WASTE DISPOSAL METHOD: Trained and properly equipped personnel may dilute and neutralize waste very carefully with dilute acid in accordance with Federal, State and local regulations. If disposed of as received, may be regulated as a "characteristic" hazardous waste due to pH.
HANDLING AND STORING: CAUTION: Alkaline liquid. Do not get in eyes, on skin or clothing, or breathe mist or vapors. Store only in original container in a cool, dry, well-ventilated area. Keep container closed when not in use. Keep from freezing.
OTHER PRECAUTIONS: Do not reuse container. Since empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Read and follow label directions.

SECTION 8: CONTROL MEASURES

VENTILATION: General mechanical and/or local exhaust as needed in confined areas, or if mist or vapor in air causes irritation or exceeds recommended exposure limits.
RESPIRATORY PROTECTION: Not normally required. If product is used in a manner which creates vapors or mist above recommended exposure limits, a NIOSH/MSHA approved organic vapor respirator with dust/mist filter may be needed in the absence of proper environmental controls.
GLOVES: Rubber or plastic as needed to avoid prolonged contact.
EYE PROTECTION: Chemical safety glasses or goggles.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Protective clothing, rubber boots and other equipment as needed to prevent prolonged contact with skin, eyes and clothing. Suitable facilities for quick drenching or flushing of the eyes and body should be provided within the work area for immediate emergency use.
WORK/HYGIENIC PRACTICES: Normal: Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

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