



KLEEN KOTE™

MATERIAL SAFETY DATA SHEET

Effective Date: July 22, 2008

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SECTION 1 CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name:	Kleen Kote
Chemical Name:	Mixture, Concentrate
Chemical Family:	Cleaning, Scouring or Washing Compound NOS or Soap NOS
CAS Number:	Not Applicable for Mixtures
Manufacturer:	Progressive Solutions Corporation, PO Box 7277, Algonquin, IL 60102 TEL: 847.639.7272 EMAIL: support@4progressive.com
Emergency Contact:	847.639.7272 Normal Business Hours Or Call Local Poison Control Center

The information provided in this Material Safety Data Sheet is for KLEEN KOTE Concentrate (amber colored liquid) unless otherwise noted. This product is intended to be mixed with water prior to use.

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Principal Ingredient:

Component	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH	Carcinogen
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH	-----
Mineral Oil Blend Concentrate	5 mg/m3 (oil mist)	None Established	5 mg/m3 (oil mist)	10 mg/m3 (oil mist)	None Established	None Established	None Established	None Established

The above information is for KLEEN KOTE Concentrate. The product is not formulated to be used in a concentrated form. At the strongest recommended mix ratio of 8 parts water to 1 part KLEEN KOTE the mix is 87.5% water.

SECTION 3 HAZARDS IDENTIFICATION

 DILUTED @ 8 to 1	<p>***** EMERGENCY OVERVIEW *****</p> <p>This product is not expected to cause a severe emergency hazard.</p>	 CONCENTRATE
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Potential Health Effects: See Section 11 for complete toxicological information.

Inhalation:	Inhalation of vapors or mist may be irritating to respiratory passages. Target organ for mineral oil mist is lungs. Prolonged exposure may result in dizziness and nausea.
Eye:	Eye contact may result in slight irritation and redness.
Skin:	Short term contact with skin is unlikely to cause any problems; excessive or prolonged and repeated contact and poor hygiene conditions may result in dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin.
Ingestion:	May result in nausea or stomach discomfort.
Carcinogenicity:	Based on OSHA 1910.1200 and IARC study requirements, this product does not require labeling. Meets EU requirements of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. NTP and OSHA do not list this product as a potential carcinogen.
Mutagenicity:	This product gives negative mutagenic results from Modified Ames Assay.



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SECTION 4 FIRST AID MEASURES

Eye Contact:	Flush with water for at least 15 minutes. If irritation develops or persists, promptly contact a physician.
Skin Contact:	Wash skin thoroughly with mild soap and water. Remove contaminated articles and get medical attention if irritation develops. Launder articles before reuse and discard saturated articles that cannot be cleaned thoroughly.
Inhalation:	Remove exposed person to fresh air if adverse effects are observed. Assist breathing if necessary. Seek medical help.
Aspiration:	If there is suspicion of aspiration into the lungs obtain medical advice.
Ingestion:	Do NOT induce vomiting. If conscious, give two glasses of water. Seek medical attention immediately!
Notes to Physician:	Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point:	>325 °F (>163 °C)
Flash Point Method:	COC
Burning Rate:	Not Available
Auto Ignition Temperature:	>600 °F (>315 °C)
Lower Explosive Level:	Not Determined
Upper Explosive Level:	Not Determined
Flammability Classification:	OSHA Class III-B Combustible Liquid
Extinguishing Media:	Halon, CO2, Dry Chemical, Foam, Water Spray or Water Fog. Water may be used to cool below flash point.
Unusual Fire or Explosion Hazards:	Do not use forced stream as this could cause fire to spread.
Combustion Products:	Fumes, smoke and carbon monoxide.
Fire Fighting Instructions and Equipment:	Water may cause splattering. Use water to cool containers exposed to fire and to protect personnel. Fire fighters should wear proper protective equipment and clothing including respiratory protection (positive pressure if available).



SECTION 6 ACCIDENTAL SPILL / RELEASE MEASURES

Personal Protective Equipment must be worn, see Personal Protection Section 8 for PPE recommendations.

Spill / Leak Procedures:	Spill area will be slick. Stop spill at source if possible. Eliminate sources of ignition. Prevent entry into sewers and waterways. Contain spill. Ventilate area if spilled in a confined space or other poorly ventilated areas. Residual liquid can be adsorbed by inert material. Recover all possible material for reclamation. Dispose of in accordance with all Federal, State and Local environmental regulations.
Spill to Navigable Waters:	If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center at 800.424.8802.

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SECTION 7**HANDLING and SHIPPING**

General Handling Procedures:	Keep containers closed when not in use. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near containers. Wash thoroughly after handling. Empty containers contain product residue which may exhibit hazards of the product. Maximum handling temperature has not been determined.
Storage Procedures:	Do NOT store near potential sources of ignition. Rotate stock. Store in clean, dry containers at ambient temperatures and it should remain stable unless it is contaminated. Do NOT store at temperatures greater than 120 F (49 C). Maximum storage temperature has not been determined. NFPA Class III-B storage.
Work / Hygienic Practices:	Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Do not use gasoline, solvents, kerosene or other harsh or abrasive skin cleaners for washing exposed skin areas. Take a shower after use if general contact occurs. Launder articles before reuse and discard saturated articles that cannot be cleaned thoroughly.

SECTION 8**EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ventilation Procedures:	Use with adequate ventilation.
Gloves Procedure:	As needed to prevent repeated skin contact. Solvent resistant gloves should be used if needed.
Eye Protection:	Safety Glasses
Respiratory Protection:	Not normally needed. Use NIOSH/MSHA approved respirator with a dust mist cartridge if the recommended exposure limit is exceeded.
Clothing Recommendation:	Long sleeve shirt is recommended. Use chemically protective boots when necessary to avoid contaminating shoes. Do NOT wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

SECTION 9**PHYSICAL and CHEMICAL PROPERTIES**

Loading Temperature:	Not Determined	Molecular Weight:	Not Determined
Flash Point:	>325 °F (>163 °C) Cleveland Open Cup (Min.)	pH:	Not Determined
Specific Gravity (H₂O=1):	@ 60°F - 0.90	Water Solubility:	Dispersible
Boiling Point:	Not Determined	Freezing Point:	Not Determined
Vapor Pressure:	Not Determined	Evaporation Rate:	Not Determined
Percent Volatile:	Nil (LVP-VOC)	Viscosity:	100 SUS @ 100°F (19 cSt @ 40°C)
Vapor Density (Air=1):	> 5	Odor Threshold:	Not Determined
Odor and Appearance:	Amber liquid with a mild odor.	Physical State:	Liquid

SECTION 10**STABILITY and REACTIVITY**

Stability:	This material is normally stable at moderately elevated temperatures and pressures. Avoid sources of ignition.
Decomposition Temperature:	Not Determined.
Hazardous Polymerization:	Will not occur.
Thermal Decomposition:	Smoke, carbon monoxide, aldehydes and other products of incomplete combustion.
Incompatibility:	Strong acids, Strong alkalis, Oxidizing agents.

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SECTION 11**TOXICOLOGICAL INFORMATION**

Eye Effects:	Minimal irritation possible on contact. Does not meet Canadian D2B or EU R36 criteria. Based on data from components or similar materials.
Skin Effects:	Not expected to be a primary skin irritant. Not expected to meet EU R38 criteria. Based on data from components or similar materials. Prolonged or repeated contact, as from wet clothing, may cause drying, defatting of skin and dermatitis.
Respiration Irritation:	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components or similar materials.
Dermal Sensitization:	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization:	No data available to indicate product or components may be a respiratory sensitizer.
Exposure Limits:	Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5mg per cubic meter, ACGIH STEL of 10mg per cubic meter.
Chronic Toxicity:	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Dermal Toxicity:	Rabbit: LD50>2000 mg/kg. Based on data from components or similar materials.
Inhalation Toxicity:	Not expected to be a toxic inhalation hazard. Based on data from components or similar materials.
Oral Toxicity:	Rat: LD 50>5000mg/kg. Based on data from components or similar materials.
Reproductive Toxicity:	No data available to indicate either product or components present at greater than 0.1% may cause reproductive toxicity.
Carcinogenicity:	This material is formulated with mineral oils which are considered to be severely refined and are not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
Mutagenicity:	No data available to indicate either product or components present at greater than 0.1% are mutagenic or genotoxic.
Teratogenicity:	No data available to indicate either product or components present at greater than 0.1% may cause birth defects.

SECTION 12**ECOLOGICAL INFORMATION**

Freshwater Fish Toxicity:	Not Determined	Biodegradation:	Not Determined
Saltwater Fish Toxicity:	Not Determined	Soil Mobility:	Not Determined
Miscellaneous Toxicity:	Not Determined	Bioaccumulation:	0.1-1% of the components display no potential to bioconcentrate
Algal Inhibition:	Not Determined	Freshwater Invertebrates Toxicity:	96 hr. acute static toxicity for Pimephales promelas (Fathead Minnow) LC ₅₀ mortality is greater than 30,000 mg/L
Bacteria Toxicity:	Not Determined	Ecotoxicity:	Available data indicate this product is not acutely toxic.

SECTION 13**DISPOSAL CONSIDERATIONS**

Waste Disposal:	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261 if not contaminated. Follow Federal, State and Local regulations. Do not flush to drain or storm sewer. Contact authorized disposal service. Consider recycling.
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SECTION 14

TRANSPORTATION INFORMATION

U.S. Shipping Information:	Regulation by: D.O.T.: Non-Hazardous. Not regulated by DOT. H.S. Tariff #: 3403.19.0000 Schedule B #: 3403.19.0000 Shipping Class: 55 N.M.F.C.#: 48580 - Sub 3 - Cleaning, Scouring or Washing Compounds, N.O.I., Liquid
Canadian Shipping Information:	Not regulated under Transportation of Dangerous Goods Act.
Other:	Not Regulated: ICAO/IATA, IMDG (ambient), U.S. Dot Bulk (ambient), U.S. Dot Non-Bulk, TDG Bulk (ambient), TDG Non-Bulk, Mexico, ADR/RID (ambient), ADG (ambient) Not Determined: IMDG (elevated), IMO Marine Bulk, USCG Compatibility, U.S. Dot Bulk (elevated), TDG Bulk (elevated), ADR/RID (elevated), ADG (elevated) Not Applicable: IMDG EMS, IMDG MFAG

SECTION 15

REGULATION INFORMATION

U.S. TSCA Inventory:	All components of this material are on the US TSCA Inventory.
SARA Extremely Hazardous Substances:	This product does not contain greater than 1% of any chemical substance on the SARA Extremely Hazardous Substances list.
SARA Section 313:	This product does not contain greater than 1% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.
TDG Regulated Limits:	None Known
CERLA Hazardous Substances:	None Known
V.O.C. Compliant:	Yes
Australia:	All components are in compliance with chemical notification requirements in Australia.
Canada:	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
China:	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
EU EINECS:	All components are in compliance with the EC Seventh amendment Directive 92/32/EEC. No known R-Phrases or S-Phrases.
Japan:	All components are in compliance with the Chemical Substances Control Law of Japan
Korea:	All components are in compliance in Korea.
Philippines:	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
Switzerland:	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
California Proposition 65:	This product is not known to contain any chemicals known the State of California to cause cancer or birth defects. However, we do not conduct routine analysis for all listed materials.
Florida:	None Present.
Illinois DOL TSL:	None Present.
Massachusetts RTK:	None Present.
Minnesota RTK:	None Present.
New Jersey RTK:	List petroleum oil, but this product does not contain hazardous ingredients.
Pennsylvania RTK:	List petroleum oil, but this product does not contain hazardous ingredients greater than 3%.

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SECTION 16

OTHER INFORMATION

Abbreviations:	ACGIH (American Conference of Governmental Industrial Hygienists); ANSI (American National Standards Institute); CAS (Chemical Abstract Service); CERCLA (Comprehensive Environmental Response, Compensation, & Liability Act); CFR (Code of Federal Regulations); CHIP (Chemicals Hazard Information & Packaging for Supply); COC (Cleveland Closed Cup); CONCAWE (European Organization for Environment, Health & Safety); CPR (Controlled Products Regulations); DOL (Department of Labor); EEC (European Economic Community Directives); EINECS (European Inventory of Existing Commercial Chemical Substances); EL50 (Effective loading rate required to immobilize 50% invertebrate species); ELINCS (European List of New Chemical Substances); EPA (Environmental Protection Agency); EPCRA (Emergency Planning & Community Right-To-Know Act of 1986); EU (European Union); FDA (Food & Drug Administration-USA); GHS (Global Harmonization System); HCS (Hazard Communication Standard); IARC (International Agency for Research on Cancer); ILO (International Labor Organization); LC50 (Lethal Concentration 50% test organisms); LD50 (Lethal Dose 50% test organisms); LVPVOC (Low Vapor Pressure Volatile Organic Compound); MSDS (Material Safety Data Sheet); MSHA (Mine Safety & Health Administration); NIOSH (National Institute of Occupational Safety & Health); NTP (National Toxicology Program); NOS (Not Otherwise Specified); OSHA (Occupational Safety & Health Administration); PEL (Permissible Exposure Limit) ; Prop 65 (California Proposition 65); PMCC (Pensky Martin Closed Cup); RCRA (Resource Conservation & Recovery Act); RTK (Right-To-Know); R-Phrases (EU Risk Phrases); S-Phrases (EU Safety Phrases); SARA (Superfund Amendments & Reauthorization Act); TDG (Transport Dangerous Goods); TSCA (Toxic Substances Control Act); TSL (Toxic Substance List); TLV (Threshold Limit Value); VOC (Volatile Organic Compounds); WHMIS (Workplace Hazardous Materials Information System-Canada); IrL50 (Inhibitory loading rate required to reduce algal growth rate by 50%); IbL50 (Inhibitory loading rate required to reduce area under growth curve or biomass by 50%); ppm (parts per million); mg/m3 (milligrams per cubic meter); N (no); Y (yes)		
Revision Information:	Complete review of entire document. Changes possible in all sections.		
Prepared By:	Donald McMahon	Title:	President
Approval Date:	July 22, 2008	Supersedes Date:	March 20, 2008

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