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ILRC# 00000034

Royal Oak Prem. Charcoal Lighter

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PREMIUM LIGHTER FLUID/CHARCOAL STARTER

PAGE 1 OF 6

ISSUE DATE: 1/3/2000

MANUFACTURER: Royal Oak Enterprises, Inc.
1 Royal Oak Avenue
Roswell, GA 30076
(678) 461-3200

Trans. Emergencies
CALL CHEMTREC
(800) 424-9300
Health Emergencies
CALL LOS ANGELES
POISON INFO CENTER
(213) 222-3212 (24 HOURS)

SECTION I - HAZARDOUS INGREDIENTS/EXPOSURE LIMITS

	<u>TLV</u>	<u>UNITS</u>	<u>AGENCY</u>	<u>TYPE</u>
STODDARD SOLVENT CAS# 64742-47-8	100	PPM	ACGIH	TWA
DOT PROPER SHIPPING NAME:	200	PPM	ACGIH	STEL
PETROLEUM NAPHTHA	500	PPM	OSHA	TWA
DOT HAZARD CLASSIFICATION:				
COMBUSTIBLE LIQUID				

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: IF IRRITATION OR REDNESS FROM EXPOSURE TO VAPORS DEVELOPS, MOVE VICTIM AWAY FROM EXPOSURE AND INTO FRESH AIR. IF IRRITATION OR REDNESS PERSISTS, SEEK MEDICAL ATTENTION. FOR DIRECT CONTACT, FLUSH THE AFFECTED EYE (S) WITH CLEAN WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. CLEANSE AFFECTED AREA (S) THOROUGHLY BY WASHING WITH MILD SOAP AND WATER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

SECTION II - EMERGENCY FIRST AID PROCEDURES (CONTINUED)

INHALATION (BREATHING): IF IRRITATION OF NOSE OR THROAT DEVELOPS, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION (SWALLOWING): ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. IF VICTIM IS DROWSY OR UNCONSCIOUS, PLACE ON THE LEFT SIDE WITH HEAD DOWN. IF POSSIBLE, DO NOT LEAVE UNATTENDED. SEEK MEDICAL ATTENTION.

SECTION III - HEALTH HAZARDS/ ROUTES OF ENTRY

EYE CONTACT: THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT WITH THE LIQUID OR EXPOSURE TO ITS VAPORS OR MISTS MAY CAUSE BURNING, TEARING AND REDNESS.

INHALATION (BREATHING): BREATHING HIGH CONCENTRATIONS OF VAPORS OR MISTS MAY CAUSE IRRITATION OF THE NOSE, THROAT AND RESPIRATORY TRACT. SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DROWSINESS, DIZZINESS, LOSS OF COORDINATION AND FATIGUE) MAY OCCUR. RESPIRATORY SYMPTOMS ASSOCIATED WITH PRE-EXISTING LUNG DISORDERS (E.G., ASTHMA-LIKE CONDITIONS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL.

INGESTION (SWALLOWING): INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., DROWSINESS, DIZZINESS, LOSS OF COORDINATION AND FATIGUE). ASPIRATION HAZARD -- THIS MATERIAL CAN ENTER LUNGS DURING SWALLOWING OF VOMITING AND CAUSE LUNG INFLAMMATION AND DAMAGE.

COMMENTS: THIS SUBSTANCE HAS NOT BEEN IDENTIFIED AS A CARCINOGEN OR PROBABLE CARCINOGEN BY NTP, IARC OR OSHA.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE (SOMETIMES REFERRED TO AS SOLVENT OR PAINTERS' SYNDROME). INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL.

SECTION IV - SPECIAL PROTECTION INFORMATION

VENTILATION: IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE FOR MINIMIZING EXPOSURES. ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED. WHERE EXPLOSIVE MIXTURES MAY BE PRESENT, SYSTEMS SAFE FOR SUCH LOCATIONS SHOULD BE USED.

RESPIRATORY PROTECTION: THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I). DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR OR GAS MASK WITH APPROPRIATE CARTRIDGES AND CANISTERS (NIOSH APPROVED, IF AVAILABLE) OR SUPPLIED AIR EQUIPMENT.

PROTECTIVE GLOVES: THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION.

EYE PROTECTION: WEAR APPROVED EYE PROTECTION TO SAFE GUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

OTHER PROTECTIVE EQUIPMENT: IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN WORK AREA FOR FLUSHING EYES AND SKIN. IMPERVIOUS CLOTHING SHOULD BE WORN AS NEEDED.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY (MATERIAL TO AVOID): THIS PRODUCT IS INCOMPATIBLE WITH STRONG ACIDS OR BASES, OXIDIZING AGENTS AND SELECTED AMINES. AVOID HEAT AND FLAME.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

HAZARDS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - SPILL OR LEAK PROCEDURES *HIGHWAY OR RAILWAY SPILLS*
CALL CHEMTREC (800) 424-9300

PRECAUTIONS IN CASE OF RELEASE OR SPILL: STAY UPWIND AND AWAY FROM SPILL. KEEP ALL SOURCES OF IGNITION AND HOT METAL SURFACES AWAY FROM SPILL. IF SPILL IS INDOORS, VENTILATE AREA OF SPILL. A UNIVERSAL TYPE FOAM MAY BE USED TO SUPPRESS VAPORS. KEEP OUT OF DRAINS, SEWERS OR WATERWAYS. USE SAND OR OTHER INERT MATERIAL TO DAM AND CONTAIN SPILL. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS, DO NOT FLUSH WITH WATER, USE ABSORBENT PADS. CALL SPILL RESPONSE TEAM IF LARGE SPILL. NOTIFY APPROPRIATE STATE/LOCAL AGENCIES.

WASTE DISPOSAL METHOD: DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS: KEEP CONTAINERS TIGHTLY CLOSED. KEEP CONTAINERS COOL, DRY, AND AWAY FROM SOURCES OF IGNITION. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. AVOID INHALATION OF VAPORS AND PERSONAL CONTACT WITH THE PRODUCT. USE GOOD PERSONAL HYGIENE PRACTICE. "EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. "EMPTY" DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY SHIPPED TO THE SUPPLIER OR A DRUM RECONDITIONER. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. BEFORE WORKING ON OR IN TANKS WHICH CONTAIN OR HAVE CONTAINED THIS PRODUCT. REFER TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATION, ANSI 249.1, AND OTHER GOVERNMENTAL AND INDUSTRIAL REFERENCES PERTAINING TO CLEANING, REPAIRING, WELDING, OR OTHER CONTEMPLATED OPERATIONS.

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

<u>NFPA HAZARD CLASS</u>	<u>KEY</u>	<u>NPCA/HMIS HAZARD CLASS</u>
HEALTH HAZARD: 1	0 = LEAST	HEALTH: 1
FLAMMABILITY: 2	1 = SLIGHT	FLAMMABILITY: 2
REACTIVITY: 0	2 = MODERATE	REACTIVITY: 0
	3 = HIGH	
	4 = EXTREME	

 SECTION VIII - FIRE AND EXPLOSION HAZARD DATA CONTINUED

<u>FLASH POINT</u>	<u>LOWER EXPLOSIVE LIMIT (% VOL.)</u>	<u>UPPER EXPLOSIVE LIMIT (% VOL.)</u>
142 DEG. F (TCC)	1.4	8.9

EXTINGUISHING MEDIA: EXTINGUISH WITH DRY CHEMICAL, CO₂ OR A UNIVERSAL TYPE FOAM.

FIRE & EXPLOSION HAZARDS: THIS MATERIAL IS COMBUSTIBLE AND MAY BE IGNITED BY HEAT OR FLAME. THIS MATERIAL WILL BURN, BUT WILL NOT IGNITE READILY.

FIRE FIGHTING PROCEDURES: THE USE OF NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED FOR FIRE FIGHTERS. WATER SPRAY MY BE USEFUL IN MINIMIZING VAPORS AND COOLING CONTAINERS EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

 SECTION IX - PHYSICAL DATA

<u>APPROX. BOILING POINT</u>	<u>VAPOR DENSITY (AIR = 1)</u>	<u>VAPOR PRESSURE</u>
340 F TO 430 F	GREATER THAN 1.0	3 MM HG @ 100 DEG. F

<u>EVAPORATION RATE (N-BUTYL ACETATE = 1)</u>	<u>% VOLATILE</u>
0.1	100%

<u>% SOLUBILITY IN WATER</u>	<u>SPECIFIC GRAVITY (TEMP/TEMP)</u>
NEGLIGIBLE	NOT AVAILABLE

APPEARANCE
CLEAR, HAS LITTLE IF ANY COLOR.

ODOR
CHARACTERISTIC

PRODUCT NAME: PREMIUM LIGHTER FLUID/CHARCOAL STARTER

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