



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTITY

NAME OF PRODUCT:
PM-2653 LUBRICATING OIL

MANUFACTURER'S NAME AND ADDRESS:
SUNNEN PRODUCTS COMPANY
7910 MANCHESTER
ST. LOUIS, MO 63143

CONTACT:
CHUCK KORN

DATE:
NOVEMBER 28, 1996

EMERGENCY TELEPHONE NUMBER:
314-781-2105

SECTION 2 INGREDIENTS/IDENTITY (PER 29 CFR 1910.1200(g))

CHEMICAL NAME OF COMPONENTS	Wt%	CAS NO.	OSHA TWA Z1-A mg/cu m	OSHA STEL Z1-A	ACGIH TWA	CARCINOGENIC
PETROLEUM DISTILLATE, SEVERELY HYDROTREATED, HEAVY NAPHTHENIC	Trade Secret	64742-52-5	5(mist)	NONE	5(mist)	N

THE EXACT COMPOSITION OF THIS MATERIAL IS BEING WITHHELD AS A TRADE SECRET OF SUNNEN PRODUCTS COMPANY. FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS.

THESE MIXTURE INGREDIENTS ARE CITED ON THE FOLLOWING LISTS:

Name	CAS	Citations
MINERAL OIL	64742-52-5	2,4,5,6,7,9,10,11,12,13,14,16,17

1=IARC 2=OSHA 3=NTP 4=ACGIH 5=NFA49 6=NFA325M 7=DOT HMT 49CFR172.101 8=EPA 9=RTECS 10=MA RTK 11=AK RTK 12=CA RTK 13=FL RTK 14=IL RTK 15=ME RTK 16=MN RTK 17=NH RTK 18=NJ RTK 19=Cincinnati, OH RTK 20=Norwood, OH RTK 21=PA RTK 22=RI RTK 23=WV RTK

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1).....89
BOILING POINT.....>550 F (285 C)
VAPOR PRESSURE (mm Hg).....<.01mm Hg @ 68 F (20 C)
PERCENT VOLATILE BY WEIGHT.....<1%
VAPOR DENSITY (Air=1).....>5
EVAPORATION RATE.....NEGLIGIBLE
REACTIVITY IN WATER.....NOT REACTIVE
APPEARANCE AND ODOR.....AMBER LIQUID WITH MINERAL OIL ODOR.
SOLUBILITY IN WATER.....NEGLIGIBLE.

SECTION 4 SPECIAL PRECAUTIONS

NONE Refer to section 7.

SECTION 5 CORROSIVELY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE. POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR. INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDATION AGENTS SUCH AS FUMING NITRIC ACID OR LIQUID CHLORINE. CONDITIONS TO BE AVOIDED: OXIDIZING CONDITIONS. HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF SULFUR, CARBON MONOXIDE AND CARBON DIOXIDE AS PRODUCTS OF COMBUSTION.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION. ABBREVIATIONS USED IN THE FOLLOWING SECTION. SKIN=SKIN CONTACT. EYE=EYE CONTACT. INHAL=INHALATION. INGEST=INGESTION.

MINERAL OIL: ACUTE: SKIN: May irritate the skin. Predisposing factors: Usually individuals with sensitive skin or large amounts of body hair. Material is not sterile and may infect open cuts or sores). INGEST: Acute oral toxicity: LD 50>5 gm./kg. (rats). INHAL: Observe ACGIH limits for oil mist. Symptoms of overexposure to oil mist include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphyzema) can display increased sensitivity to oil mists or vapors. CHRONIC: SKIN: Prolonged repeated skin contact can cause skin irritation or oil acne: Inflammation and blackheads due to mechanical blockage of the pores. Prolonged or repeated exposure may aggravate existing dermatitis. EYE: None known. INGEST: None known. INHAL: None known.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. SKIN CONTACT: Wash contact areas with mild non-abrasive soap and water. If injected under the skin, regardless of the appearance or its size, contact a physician IMMEDIATELY. Delay may cause loss of affected part of the body. INGESTION: Get medical assistance. Do not induce vomiting.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water. NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Empty containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations. STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbant. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-424-8802). WASTE DISPOSAL METHODS: It is our opinion that the unused material is not specifically listed by the EPA as a hazardous waste (40 CFR Part 261D), is not ignitable, is not corrosive, is not reactive and is not formulated with the metals cited in the EP toxicity test. However, used material may be regulated. Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use an

approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure to well below TLV levels. VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M. OTHER: No applicable information found. SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed. Do not wear oil soaked clothing. EYE PROTECTION: Always wear NIOSH approved eye protection when working around or operating machinery. OTHER EQUIPMENT: Oil-impervious apron if desired. MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Same as for petroleum lubricating oil. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT --275 F (135 C) C.O.C. FLAMMABLE LIMITS-- LEL: .9% UEL: 7% EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. SPECIAL FIRE FIGHTING PROCEDURES: For fires in enclosed areas, firefighters must use self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed containers may explode if exposed to extreme heat.

NOTICE

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