



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTITY

NAME OF PRODUCT: HBS-3104A WAY 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))

WHEN EVALUATED IN ACCORDANCE WITH THE PROVISIONS OF THE FEDERAL HAZARD COMMUNICATION RULE 29 CFR 1910.1200, HBS-3104A WAS JUDGED TO BE NON-HAZARDOUS. HBS-3104A MAY BE JUDGED TO BE HAZARDOUS WHEN EVALUATED IN ACCORDANCE WITH CERTAIN STATE OR COMMUNITY RIGHT TO KNOW REGULATIONS. 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
Phosphoric Acid	1330-78-5	15

1=IARC 2=OSHA 3=NTP 4=ACGIH 5=NTPA49 6=NTPA325M 7=DOT HMT 49CFR172.101 8=EPA, SARA III 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, Ohio RTK 20=Norwood, Ohio RTK 21=PA RTK 22=RI RTK 23=WV RTK

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)864
APPEARANCE AND ODOR..... Brown color liquid with petroleum odor.
PERCENT VOLATILE BY WEIGHT..... <1%
REACTIVITY IN WATER..... No hazardous reactions.
BOILING POINT >460 F (235 C)
VAPOR DENSITY (Air=1)..... Heavier than air.
VAPOR PRESSURE (mm Hg)..... <.1mm Hg @ 68 F (20 C)
EVAPORATION RATE Negligible
SOLUBILITY IN WATER..... Negligible

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store away from heat or flame. Read and follow container warnings. Refer to MSDS Section 7 & 8.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage. **POLYMERIZATION:** Hazardous polymerization does not occur. **INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidation agents such as

fuming nitric acid may produce hazardous reactions. CONDITIONS TO BE AVOIDED: Oxidizing conditions. HAZARDOUS DECOMPOSITION PRODUCTS: Combustion of material will produce oxides of Carbon.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE. PRIMARY ROUTE(S) OF ENTRY ARE: INHALATION AND SKIN ABSORPTION. Abbreviations used in the following section: SKIN=Skin absorption. EYE=Eye contact. INHAL=Inhalation INGEST=Ingestion. THE INFORMATION PRESENTED AND CONCLUSIONS DRAWN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA.

ACUTE: SKIN: Material is not sterile and may infect open cuts or sores. Repeated contact can cause skin irritation or oil acne: folliculitis and comedones due to mechanical blockage of the follicular orifices. Predisposing factors: usually individuals with sensitive skin or large amounts of body hair. EYE: Not expected to be irritating based on testing of similar products. INHAL: Symptoms of overexposure include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphysema) can display increased sensitivity to oil mist or vapors. INGEST: Loose bowel movements. **CHRONIC SKIN:** None known. EYE: None known. INHAL: None known. INGEST: 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. **INGESTION:** Do not induce vomiting. Call physician or poison control center immediately.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame as the material will expand if overheated and possibly rupture the container spilling the contents. The spilled material will create a slip hazard and will burn if ignited. If stored outdoors, store so as to shed water to prevent pollution by water and dirt. Plastic containers are brittle if frozen and may split and leak if handled roughly. Do not transfer to unlabeled containers. Since emptied containers retain material residue, follow label warnings even after container is emptied and do not reuse container for other purposes. All precautions detailed on the container label apply to partially full or empty containers. Do not transfer to unlabeled containers. Use personal protection equipment and precautions as specified in Section 8. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. **NORMAL USE:** Practice good personal hygiene. Wash hands thoroughly after skin contact. **FOR INDUSTRIAL USE ONLY.** Not suitable for use in or around household or dwelling. **STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS:** Contain and absorb on fire-retardant treated sawdust, diatomaceous earth or other suitable absorbant and place in fireproof waste container. Notify Coast Guard if spill could reach any waterways (1-800-424-8802) and also local/state authorities. Spilled material is greasy and produces a slip/fall hazard. **WASTE DISPOSAL METHOD:** The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR 261D), is not ignitable, not corrosive, not reactive and is not formulated with the metals cited in the EP Toxicity Test. Used material may be regulated. Do not attempt to clean container as residue is difficult to remove. Containers should be disposed of in an environmentally safe manner and in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not required under normal conditions of use. **VENTILATION:** Normal ventilation. **SKIN PROTECTION:** Not normally required for short exposures. Avoid wearing clothing soaked with fluid. **EYE PROTECTION:** Always wear NIOSH approved safety glasses when honing 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: 370 F (188 C) ASTM D-92. 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. Treat as an oil fire. Do not use water as material will float and spread on water. AUTO-IGNITION TEMPERATURE: Not Established UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion will produce oxides of carbon. Towels, rags or other insulating absorbent fibrous media contaminated with any oil product should be stored in appropriate fireproof container that is emptied daily, to limit spontaneous combustion hazard. Although not classified as "combustible" (based on flash point and ignition properties) this product can be made to burn and will serve as a fuel source for a fire. Sealed containers may melt, leak, burst or explode, releasing contents and spreading fire, if exposed to extreme heat.

NOTICE

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