



MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME AND ADDRESS:

SUNNEN PRODUCTS COMPANY
 7910 Manchester Ave.
 St. Louis, MO 63143
 U.S.A.

CONTACT:
 EMERGENCY PHONE NO:
 APPROVED BY:
 TITLE:
 DATE:

Chuck Korn
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 Terry Heller
 Manager, Materials R&D
 December 1, 1992

TRADE NAME, COMMON NAME OR SPECIFICATION: **SCC-405**

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

CHEMICAL NAME OF COMPONENTS	CAS NO.	Wt.%	OSHA Z1A 8 HR TWA	OSHA Z1A STEL	OSHA Z1A SKIN	ACGIH TWA mg./cu.m.	CARCINOGENIC
PETROLEUM DISTILLATE, SEVERELY HYDROTREATED, LIGHT NAPHTHENIC	64742-53-6	Trade Secret	5(mist)	NONE	NONE	5(mist)	N(1,2)

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. (1) Mineral oil used in the occupation of metal machining is known to the state of California to cause cancer. (2) Note that the CAS number refers to the material prior to additional hydrotreating. No CAS number is available to describe the material after additional severe hydrotreating. The severely hydrotreated oil is not cited by IARC. This mixture contains toxic chemicals subject to the reporting requirements of Section 313 of Title III of the SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 and 40 CFR Part 372.

These mixture ingredients are cited on the following lists:

Name	Wt%	CAS	Citations
MINERAL OIL	Trade Secret	64742-53-6	2,4,5,6,9,10,11,12,13,14,16,17
GLYCOL ETHERS	<6%	NOT APPLICABLE	8

1=IARC 2=OSHA 3=NTP 4=ACGIH 5=NFPA49 6=NFPA325M 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, OH RTK 20=Norwood, OH RTK 21=PA RTK 22=RI RTK 23=WV RTK

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY.....	1.03	PERCENT VOLATILE BY WEIGHT.....	20%
BOILING POINT.....	212°F (100°C)	VAPOR DENSITY (Air=1).....	Water vapor
EVAPORATION RATE.....	Like water	VAPOR PRESSURE (mm Hg).....	Water vapor
SOLUBILITY IN WATER.....	100%	REACTIVITY IN WATER.....	No hazardous reactions.
APPEARANCE AND ODOR.....	White liquid/Mild odor.	pH.....	5% Dilution 9.0-9.4

SECTION 4 SPECIAL PRECAUTIONS HANDLING AND STORAGE: Protective equipment required. Refer to Section 8.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE. POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR. INCOMPATIBILITIES (MATERIALS TO AVOID): AVOID CONTACT OF CONCENTRATE WITH STRONG ACIDS. Not suitable for use on Magnesium (may self ignite). Contains Amines. Do not add nitrosating agents as cancer causing nitrosamines could be formed. HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Nitrogen and Carbon from thermal decomposition.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION. ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE- The information presented and the conclusions drawn are from other than direct test data. This hazard evaluation is based on information from similar products, ingredients and professional experience.

ACUTE: EYE: Eye irritation and possible tissue damage from concentrate based on presence of Amines. Symptoms include severe pain, itching, burning and redness of the eye. Minor irritation of eye characterized by itching, blinking and redness of the eye from contact with diluted material according to length of exposure. SKIN: Concentrate may cause skin irritation and/or delayed skin burns according to length of exposure. Continuous contact with properly diluted material may cause skin irritation and redness similar to "dish pan hands" from the detergent action of the coolant. People with fair skin, red hair or freckles may experience increased skin sensitivity when exposed to metalworking fluids. INHALATION: Inhalation of concentrate mist expected to cause corrosive damage to tissue in the nose, mouth, breathing passages and lungs. Inhalation of normally diluted material may cause minor irritation, coughing, sore throat or chest pains. Symptoms of overexposure to mist 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 coolant mists or vapors. INGESTION: Not expected to be toxic under normal conditions of use. CHRONIC: The state of California has determined that "any mineral oil" used in the "occupation of metalworking" causes cancer. Note that IARC and OSHA have not adopted this determination. No other applicable information found.

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. Immediately contact physician and obtain treatment.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store under ordinary conditions. If stored outdoors, store so as to shed water. Protect from freezing. NORMAL USE: Use only as recommended. Avoid all contact of concentrate with eyes or prolonged contact with skin. Avoid wearing clothing soaked with fluid. Do not swallow material. Practice good personal hygiene by washing hands several times each day. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. FOR INDUSTRIAL USE ONLY. Keep out of reach of children. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty container. Do not pressurize container as doing so may cause container to burst, potentially causing serious injury or death. Do not attempt to clean as residue is difficult to remove. 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: Concentrate: Soak up liquid with absorbent and incinerate. MIX: Flush with water to sewer. WASTE DISPOSAL METHODS: FOR USED MIX: 1) Ultra-filtration for sewer disposal or acid split. Dispose of bottom water layer (after correcting pH) by sanitary sewer and top polymer and oil layer by incineration. FOR UNUSED CONCENTRATE: Incinerate, or contact vendor. Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not normally required. Avoid inhalation of mist. SKIN PROTECTION: Waterproof (Nitrile) gloves required when handling concentrate. Skin protection not normally required when working with mixed coolant. EYE PROTECTION: Safety shield or goggles required when handling concentrate. Always wear safety glasses while operating machinery. VENTILATION-LOCAL: Normal MECHANICAL: Not required. OTHER: No applicable information found. OTHER EQUIPMENT: Effective metal-working plant protective clothing as appropriate.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Mix - Self-extinguishing / Concentrate- Waterbased product. Does not respond to test. Will burn if sufficiently preheated to drive off water. EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic fumes. Oxides of nitrogen and carbon. FLAMMABLE LIMITS-LEL: UNKNOWN UEL: UNKNOWN SPECIAL FIRE FIGHTING PROCEDURES: Treat as oil fire. Recommend fire fighters wear self-contained breathing apparatus with full facepiece operated in a pressure-demand or other positive pressure mode and full body protective clothing.

NOTICE

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