



MATERIAL SAFETY DATA SHEET

**UN1866 Resin Solution, Flammable
Hazard Class 3
Packing Group I
Flammable Liquid**

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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Manager, Materials R&D
February 17, 2003

TRADE NAME: **MATERIAL 90673, HONING STONE ADHESIVE**

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

CHEMICAL NAME OF COMPONENTS	CAS NO.	Wt. %	OSHA Z1A 8 HR TWA	OSHA Z1A STEL	OSHA Z1A SKIN mg./cu.m.	ACGIH TWA	CARCINOGENIC
ACETONE/2-PROPANONE	67-64-1	58	2400	NONE	NONE	1780	N
NITROCELLULOSE/CELLULOSENITRATE/ PYROXYLIN	9004-70-0	17	NONE	NONE	NONE	NONE	N
n-BUTYL ACETATE/ NORMAL BUTYL ACETATE	123-86-4	8	710	NONE	NONE	713	N
CAMPHOR	76-22-2	7	2	NONE	NONE	2	N
ISOPROPYL ALCOHOL/ 2-PROPANOL	67-63-0	7	980	NONE	NONE	400 ppm	N
n-BUTYL ALCOHOL	71-36-3	2	300	NONE	NONE	152	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS. 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	CAS	Citations
ACETONE/2-PROPANONE	67-64-1	2,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23
NITROCELLULOSE	9004-70-0	5,6,7,9,10,15,17,18,22
NORMAL BUTYL ACETATE	123-86-4	2,4,5,6,7,9,10,11,12,13,14,15,16,17,19,20,22,23
CAMPHOR	76-22-2	2,4,9,10,11,12,13,14,15,16,17,19,20,22,23
2-PROPANOL	67-63-0	2,4,7,8,9,10,13,14,15,16,17,18,21,22,23
n-BUTYL ALCOHOL	71-36-3	2,4,5,6,7,8,9,10,11,12,13,14,15,16,17,19,20,22,23

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 (WATER=1).....	.88
APPEARANCE AND ODOR.....	Clear Liquid. Solvent Odor
PERCENT VOLATILE BY WEIGHT.....	75
REACTIVITY IN WATER.....	No hazardous reactions.
BOILING POINT.....	Not established.
VAPOR DENSITY (Air=1).....	Heavier than air.
VAPOR PRESSURE (mm Hg).....	Not established.
EVAPORATION RATE.....	Not established.
SOLUBILITY IN WATER.....	Insoluble.

SECTION 4 SPECIAL PRECAUTIONS

FIRE HAZARD. VAPORS HARMFUL. CONTAINERS SHOULD BE SUPPORTED AND GROUNDED BEFORE OPENING, DISPENSING, MIXING, POURING AND EMPTYING. OPEN WITH NON-SPARKING TOOLS. OPEN CONTAINER SLOWLY TO RELEASE INTERNAL PRESSURE.

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): Oxidation agents and acids. CONDITIONS TO BE AVOIDED: Oxidizing conditions. HAZARDOUS DECOMPOSITION PRODUCTS: Combustion of material will produce oxides of Nitrogen and 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, EYE AND SKIN ABSORPTION. THE INFORMATION PRESENTED AND CONCLUSIONS DRAWN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA.

EYE CONTACT: CONTACT WITH THE OCULAR TISSUE CAN CAUSE MILD TO MODERATE IRRITATION. FOLLOWING EYE CONTACT, CORNEAL OPACIFICATION AND POSSIBLE VASCULARIZATION CAN OCCUR. VAPORS AND/OR MISTS CONTACTING THE OCULAR TISSUE CAN CAUSE MILD TO MODERATE IRRITATION. SKIN CONTACT: CONTACT WITH THE SKIN CAN CAUSE MILD TO MODERATE IRRITATION. PROLONGED OR REPEATED DERMAL CONTACT CAN DEFAT THE SKIN, CAUSE IRRITATION AND LEAD TO THE DEVELOPMENT OF DERMATITIS. INGESTION: INGESTION CAN CAUSE GASTROINTESTINAL IRRITATION. CAN CAUSE NAUSEA, VOMITING AND GASTROINTESTINAL UPSET (e.g. DIARRHEA). DIZZINESS, FAINTNESS, DROWSINESS AND INCOORDINATION(ATAXIA) CAN OCCUR FOLLOWING INGESTION. ADDITIONAL EFFECTS: DEPENDING ON THE ROUTE, FREQUENCY AND DURATION OF EXPOSURE, TOXICITY MAY OCCUR IN THE FOLLOWING ORGANS AND/OR SYSTEM: LIVER, KIDNEY, EYE, SKIN AND CENTRAL AND/OR PERIPHERAL NERVOUS SYSTEM. AGGRAVATION OF EXISTING CONDITIONS: SOME OF THE COMPONENTS IN THIS PRODUCT MAY AGGRAVATE EXISTING MEDICAL CONDITION; CONSEQUENTLY, CERTAIN INDIVIDUAL MAY BE MORE SUSCEPTIBLE TO THE POSSIBLE EFFECTS PRODUCED BY OVEREXPOSURE. INDIVIDUALS WITH MEDICAL CONDITIONS INVOLVING THE SKIN, LIVER OR RESPIRATORY SYSTEM SHOULD TAKE APPROPRIATE PRECAUTIONS WHEN HANDLING THIS PRODUCT.

ACETONE TOXIC EFFECTS: EYE CONTACT WITH LIQUID CAN CAUSE SLIGHT DAMAGE TO THE CORNEAL EPITHELIUM. PROLONGED OR REPEATED SKIN CONTACT CAUSES DERMATITIS. INGESTION CAN CAUSE NAUSEA, VOMITING AND RESTLESSNESS. EXPOSURE TO HIGH VAPOR CONCENTRATIONS CAN IRRITATE THE THROAT AND RESULT IN HEADACHE, DIZZINESS AND DROWSINESS. ACUTE TOXICITY STUDIES: ORAL - RAT - LD50: 5,800 mg/kg, ORAL - MOUSE - LD50: 3,000 mg/kg, ORAL - RABBIT - LD50: 5,340 mg/kg, DERMAL - RABBIT - LD50: 20,000 mg/kg

BUTYL ACETATE, N- TOXIC EFFECTS: VAPORS AND LIQUID ARE IRRITATING TO THE EYES. SKIN CONTACT, ESPECIALLY IF PROLONGED OR REPEATED, CAN CAUSE DERMATITIS. INGESTION CAN RESULT IN ABDOMINAL PAIN, SORE THROAT, NAUSEA, VOMITING, HEADACHE AND DROWSINESS. VAPORS ARE IRRITATING TO THE UPPER RESPIRATORY TRACT AND CAN CAUSE COUGHING, CHEST PAIN AND SHORTNESS OF BREATH. ACUTE TOXICITY STUDIES: ORAL - RAT - LD50: 13,100 mg/kg, ORAL - MOUSE - LD50: 2,060 mg/kg, ORAL - GUINEA PIG - LD50: 4,700 mg/kg, INHALATION - RAT - LC50: 2,000 ppm/4-hours, INHALATION - MOUSE - LC50: 6,000 mg/m³/2-hours.

ISOPROPYL ALCOHOL TOXIC EFFECTS: VAPORS AND LIQUID ARE IRRITATING TO THE EYES. PROLONGED CONTACT WITH LIQUID CAN RESULT IN CONJUNCTIVITIS, IRITIS AND CORNEAL OPACIFICATION. SLIGHTLY IRRITATING TO THE SKIN, HOWEVER, PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS. CAN BE ABSORBED. LARGE QUANTITIES CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH HEADACHE, DIZZINESS, NAUSEA AND VOMITING. INGESTION OR INHALATION CAN PRODUCE THE FOLLOWING EFFECTS: CNS DEPRESSION, INCOORDINATION, NAUSEA, NARCOSIS AND COMA. ACUTE TOXICITY STUDIES: ORAL - RAT - LD50: 5,045 mg/kg, ORAL - DOG - LD50: 4,979 mg/kg, DERMAL - RABBIT - LD50: 12,800 mg/kg

N-BUTYL ALCOHOL TOXIC EFFECTS: VAPORS ARE SLIGHTLY IRRITATING TO THE OCULAR TISSUES, HOWEVER, THE LIQUID CAN CAUSE MODERATE TO SEVERE IRRITATION. CHRONIC EXPOSURE TO VAPORS CAN CAUSE CORNEAL CLOUDING. SKIN CONTACT PRODUCES IRRITATION, WHILE PROLONGED OR REPEATED CONTACT CAUSES DERMATITIS. HARMFUL IF ABSORBED THROUGH THE SKIN IN SUFFICIENT AMOUNTS. INGESTION PRODUCES NAUSEA, VOMITING, ABDOMINAL PAIN, DIARRHEA AND CNS DEPRESSION. INHALATION CAUSES UPPER RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEM DEPRESSION, HEADACHE, DIZZINESS AND POSSIBLY LIVER, KIDNEY AND LUNG DAMAGE. ACUTE TOXICITY STUDIES: ORAL - RAT: LD50: 790 mg/kg, ORAL - RABBIT - LD50: 3,484 mg/kg, DERMAL - RABBIT - LD50: 3,400 mg/kg, INHALATION - RAT - LC50: 8,000 ppm/4-hours

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 at least 15 minutes. Seek medical prompt medical attention. SKIN CONTACT: Remove contaminated clothing and shoes. Wash contact areas with mild non-abrasive soap and water. If irritation develops, consult a physician. Dispose of contaminated clothing. INGESTION: Call a poison control center, emergency room or physician. Unless advised otherwise, induce vomiting by giving either syrup of ipecac followed by 2 glasses of water or by sticking finger down throat. If the person is drowsy or unconscious, do not give anything by mouth or leave alone. Never give anything to drink to a person who is convulsing or has no gag reflex. Loosen tight fitting clothing, clear the airway and keep the person warm. NOTE TO PHYSICIAN: Treatment should be directed at preventing adsorption, administering to the symptoms as they occur, and providing supportive therapy.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: 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. **HANDLING AND STORAGE:** Store in cool, dry and well ventilated area. Do not store near heat or ignition sources or in direct sunlight. Sealed containers exposed to elevated temperatures may rupture violently because of a buildup of internal pressure. Always keep containers tightly closed to avoid contamination with moisture. A prominent chemical manufacturer has determined that hot organic chemical vapors or mists can suddenly and without warning combust when mixed with air. Ignition can occur at typical elevated temperature process conditions. Any proposed use of this material in such processes should be evaluated thoroughly to assure safe operating conditions. **NORMAL USE: FOR INDUSTRIAL USE ONLY.** Not suitable for use in or around household or dwelling. **STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS:** Stop discharge and contain spill or contaminated material using a dike or barrier. If a substantial quantity is spilled and can be pumped, recover with explosion-proof pumping equipment or vacuum truck. Otherwise, use an absorbent such as Fuller's clay or other appropriate synthetic absorbent. Place contaminated material in a suitable container for handling and disposal. Appropriate safety measures and protective equipment should be used. Do not flush to sewer, stream or other bodies of water unless authorized to do so by appropriate government official. Eliminate all sources of possible ignition. If the airborne concentration exceeds established exposure limits (TLV OR PEL), or if high airborne concentrations can occur, evacuate employees and ventilate the area. A supplied air respirator or self-contained breathing apparatus (SCBA), should be used for entry into enclosed spaces, or in areas with inadequate ventilation. **SPILL NOTIFICATION:** This product may contain one or more hazardous substances listed either by the U.S. EPA (CERCLA, 40 CFR 302.4) or by the U.S. DOT (49 CFR 172.101), for which a "reportable quantity" (RQ) has been established. If a quantity equal to or greater than the established RQ is released into the environment, the National Response Center (NRC) AT 800-424-8802 must be notified immediately. This product may also contain an extremely hazardous substance, which may require additional reporting under SARA TITLE III (40 CFR 355.40). Other federal, state and local reporting regulations may apply. **WASTE DISPOSAL METHODS:** If discarded in its original unused form, this product exhibits the characteristics of a RCRA hazardous waste as defined under: 40 CFR 261.21 (i.e. IGNITABLE - D001). Therefore, it must be managed (stored/treated/disposed/etc.) at a properly permitted facility, in compliance with all applicable federal, state and local requirements. Be sure to contact the appropriate government environmental agencies if further guidance is required.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not normally required when working with small quantities of material in ventilated areas. If strong odors are noticeable use forced ventilation to maintain levels below PEL/TLV levels. Use of an approved respirator is recommended when handling large volumes of material. **VENTILATION:** Normal ventilation required. **SKIN PROTECTION:** Not normally required when working with small quantities of material. Avoid skin contact. **EYE PROTECTION:** Always wear safety glasses. Chemical splash shield recommended when working with large volumes of material.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Unknown. Material is extremely flammable. **EXTINGUISHING MEDIA: SMALL FIRES:** Use dry chemical, carbon dioxide, halon, water spray or foam. **LARGE FIRES:** Use water spray, fog or alcohol foam. **SPECIAL FIRE FIGHTING PROCEDURES:** For fires in enclosed areas, firefighters must use self-contained breathing apparatus. **AUTO-IGNITION TEMPERATURE:** Not Established **UNUSUAL FIRE AND EXPLOSION HAZARDS:** When exposed to flames or the high temperatures normally encountered during fire conditions, sealed containers may rupture due to a buildup of internal pressure. Cool containers with water. Vapors may be heavier than air and may travel considerable distances from the material handling point. Vapors can be ignited by a spark, flame, cigarette, electric motor, static discharge, engine, hot surface or other ignition source. May liberate irritating or toxic vapors during combustion or decomposition.

NOTICE

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