



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTITY

NAME OF PRODUCT:

XJ55 or XM27 RUBBER BOND HONING STONES

MANUFACTURER'S NAME AND ADDRESS:

SUNNEN PRODUCTS COMPANY
7910 MANCHESTER
ST. LOUIS, MO 63143

CONTACT:

CHUCK KORN

DATE:

NOVEMBER 2, 2004

EMERGENCY TELEPHONE NUMBER:

314-781-2105

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

CHEMICAL NAME OF COMPONENTS	CAS NO.	MAX Wt%	OSHA Z1A 8 HR TWA	OSHA Z1A STEL mg./cu.m.	ACGIH TWA	CARCINOGENIC
aluminum oxide (alundum)	1344-28-1	55	10 dust/5 respirable	NONE	10	N
silicon carbide (crystolon)	409-21-2	55	10 dust/5 respirable	NONE	10	N
silica, fused (silicon dioxide)	60676-86-0	55	.1 respirable dust	NONE	0.1	N(1)

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS. THE EXACT COMPOSITION OF THIS MATERIAL IS BEING WITHHELD AS A TRADE SECRET OF SUNNEN PRODUCTS COMPANY. (1) Airborne particles of respirable size of Crystalline Silica are known to the state of California to cause cancer.

These mixture ingredients are cited on the following lists:

Name	CAS	Citations
ALUMINUM OXIDE	1344-28-1	4,9,13,16,17
SILICON DIOXIDE	60676-86-0	2,4,9,10,11,12,13,14,15,16,17,18,20,21,22,23
SILICON CARBIDE	409-21-2	4,9,13,16,17,22

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, OH RTK 20=Norwood, OH RTK 21=PA RTK 22=RI RTK 23=WV RTK

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)..... 1.09	VAPOR DENSITY (Air=1)NOT VOLATILE
MELTING POINT 180°F (82°C)	EVAPORATION RATE.....NOT VOLATILE
PERCENT VOLATILE BY WEIGHT ... NOT VOLATILE	SOLUBILITY IN WATERNOT SOLUBLE
VAPOR PRESSURE (mm Hg)..... NOT VOLATILE	REACTIVITY IN WATERNOT REACTIVE
APPEARANCE AND ODOR..... BLACK FLEXABLE SOLID OBJECT- NO ODOR	

SECTION 4 SPECIAL PRECAUTIONS:

None 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 will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): None Known. HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA.

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE. ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION. THE INFORMATION PRESENTED AND CONCLUSIONS DRAWN ARE FROM OTHER THAN DIRECT TEST DATA.

As a solid object the honing stone presents no hazard at normal temperatures. However, if modified for use (by abrading, grinding, cutting or processing in any other fashion that creates potentially hazardous dust or fumes) the operator will be exposed to air-borne particles or fumes which can be inhaled, swallowed, or come in contact with the skin or eyes. Symptoms may be aggravated for sensitive individuals with respiratory conditions (such as emphysema). Persons with light skin, sensitive skin or large amounts of body hair may experience skin disorders from increased sensitivity to contact with metal fumes, dust or fines suspended in the honing oil.

SILICON DIOXIDE: ACUTE: SKIN: Dust may irritate skin. EYE: Dust may irritate eyes. INHAL: Coughing, wheezing, shortness of breath and impaired breathing. IARC- Animal inadequate evidence, Human inadequate evidence, Group 2A., Known to the state of California to cause cancer. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Silicosis, a progressive lung disease. INGEST: NAIF.

SILICON CARBIDE: ACUTE: SKIN: Dust may irritate skin. EYE: Dust may irritate eyes. INHAL: Nuisance particulate. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Progressive lung disease. INGEST: NAIF.

ALUNDUM: ACUTE: SKIN: NAIF. EYE: Dust may irritate eyes. INHAL: Nuisance particulate. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention. EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water to remove particulates. Seek medical attention to check for possible irritation. SKIN CONTACT: Brush off excess dust. Wash hands with mild non-abrasive soap and water. INGESTION: Seek medical attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: No special procedures required. NORMAL USE: Practice good personal hygiene while honing. Wash hands thoroughly to remove honing oil and microscopic particles of metal debris (suspended in the oil) before touching other parts of the body, food, drinks or smoking to avoid exposure to metal fines. Refer to acute health effects-Section 6. STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Not applicable- solid object. WASTE DISPOSAL METHODS: 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 when honing with oil. If conditions of use (by abrading, melting, welding, cutting or processing in any other fashion that creates potentially hazardous dust or fumes) use NIOSH approved respirator to maintain levels of dust below ACGIH TLV and OSHA PEL/TLV levels. Normal honing operations using honing oil do not generate harmful levels of mists or fumes in the operator's breathing zone. If unusual honing conditions generate any strong odor or detectable oil mist use NIOSH approved respirator rated for mineral oil mist to maintain oil mist levels below ACGIH TLV and OSHA PEL/TLV levels. VENTILATION: Normal ventilation is required. Do not operate honing machine within a closed un-ventilation space. If conditions of use (by abrading, melting, welding, cutting or processing in any other fashion that creates potentially hazardous dust or fumes) or if any strong odors or oil mist is detected, use forced ventilation to maintain levels of fumes or mists below ACGIH TLV and OSHA PEL/TLV levels. SKIN PROTECTION: Not required when handling solid material. Skin protection is not normally required for short exposures while honing with oil. Oil impervious gloves should be worn while honing in the event any symptoms of skin distress appear. Note that some barrier creams have been shown to increase skin absorption of metallic compounds and also that many people are allergic to chemicals used in protective gloves. EYE PROTECTION: Always wear NIOSH

approved safety glasses when honing or operating machinery. OTHER EQUIPMENT: No applicable information found. MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Remove traces of material dust if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

Material in the solid state does not present a fire or explosion hazard. Dust hazards exist under favoring conditions of small particle size. Dispersion in air and strong ignition source may result in an explosion.

NOTICE

THIS MATERIAL SAFETY DATA SHEET ("MSDS") IS SUPPLIED PURSUANT TO THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S HAZARD COMMUNICATION RULE (THE "RULE"), 29 CFR 1910.1200. THIS MSDS IS BEING FURNISHED TO THE IMMEDIATE PURCHASER OF THE MATERIAL TO WHICH IT REFERS WITHOUT REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY INFORMATION OR RECOMMENDATIONS CONTAINED HEREIN.

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