

SUNNEN PRODUCTS CO. -- S-744 (TRUING SLEEVE) -- 3460-01-135-2685  
===== Product Identification =====

Product ID:S-744 (TRUING SLEEVE)  
MSDS Date:08/15/1987  
FSC:3460  
NIIN:01-135-2685  
MSDS Number: BGNKB  
=== Responsible Party ===  
Company Name:SUNNEN PRODUCTS CO.  
Address:7910 MANCHESTER AVE  
City:ST LOUIS  
State:MO  
ZIP:63143-2712  
Country:US  
Emergency Phone Num:(314)781-2105  
Preparer's Name:TERRY MEILER  
CA  
GE:58436  
=== Contractor Identification ===  
Company Name:SUNNEN PRODUCTS CO  
Address:7910 MANCHESTER AVE  
Box:City:SAINT LOUIS  
State:MO  
ZIP:63143-2712  
Country:US  
Phone:314-781-2100  
CAGE:58436

===== Composition/Information on Ingredients =====

Ingred Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
OSHA PEL:10MG/CUM(OXIDE FUME)  
ACGIH TLV:5 MG/CUM(OXIDE FUME)

Ingred Name:COPPER (SARA III)  
CAS:7440-50-8  
RTECS #:GL5325000  
OSHA PEL:0.1MG/M3 FUME/1 DUST  
ACGIH TLV:0.2MG/M3 FUME; 9192  
EPA Rp

t Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:COBALT (SARA III)  
CAS:7440-48-4  
RTECS #:GF8750000  
OSHA PEL:0.1 MG/M3;AS CO  
ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9192

Ingred Name:GRAPHITE, SYNTHETIC  
CAS:7440-44-0  
RTECS #:FF5250100  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:MANGANESE (SARA III)  
CAS:7439-96-5  
RTECS #:OO9275000  
OSHA PEL:(C) 5 MG/M3 DUST  
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:ALUMINUM (SARA III)  
CAS:7429-90-5  
RTECS #:BD0330000  
OSHA PEL:15MG/M3 DUST/5 FUME  
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:CHROMIUM (SARA III)  
CAS:7440-47-3  
RTECS #:GB4200000  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9293

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

Ingred Name:SILICON  
CAS:7440-21-3  
RT

ECS #:VW0400000  
Other REC Limits:5MG/CUM(RESPIR.DUST)  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingredient Name:LEAD (SARA III)  
CAS:7439-92-1  
RTECS #:OF7525000  
OSHA PEL:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3;DUST 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingredient Name:ZINC (SARA III)  
CAS:7440-66-6  
RTECS #:ZG8600000  
OSHA PEL:10 MG ZNO/M3  
ACGIH TLV:10 MG ZNO/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

===== Hazards Identification =====

Routes of

Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:OPERATIONS SUCH AS

ABRADING,MELTING,WELDING,CUTTING OR PROCESSING IN ANY OTHER FASHION  
MAY PRODUCE POTENTIALLY HAZARDOUS DUST OR FUMES WHICH CAN BE  
INHALED,SWALLOWED OR COME IN CONTACT WITH THE SKIN OR EYES. DUST  
OR FUME MAY CAUSE IRRITATION TO THE EYES,NOSE OR THROAT; -CONTINUES  
IN SUPPLEMENTAL SAFETY & HEALTH DATA-

Explanation of Carcinogenicity:

NICKEL IS A CARCINOGEN AND CERTAIN

COMPOUNDS OF CHROMIUM AND COBALT HAVE BEEN IDENTIFIED AS SUSPECT  
HUMAN CARCINOGENS.

Effects of Overexposure:SEE HEALTH HAZARDS AND MEDICAL CONDITIONS  
AGGRAVATED BY EXPOSURE.

Medical Conditions Aggravated by Exposure:OVEREXPOSURE SYMPTOMS MAY BE  
AGGRAVATED FOR SENSITIVE INDIVIDUALS WITH RESPIRATORY CONDITION (SUCH AS  
EMPHYSEMA). PERSON WITH LT SKIN,SENSITIVE SKIN OR LG AMTS OF BODY  
HAIR MAY EXPERIENCE SKIN DISORDERS.

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First Aid Measures =====

First Aid:EYES:FLUSH WITH WATER.SEEK MEDICAL ATTENTION;SKIN:WASH WITH SOAP & WATER;INHALATION:REMOVE TO FRESH AIR.IF NOT BREATHING GIVE CPR.SEEK MEDICAL ATTENTION;INGESTION:SEEK MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Unusual Fire/Explosion Hazard:DUST HAZARDS EXIST UNDER FAVORING CONDITIONS OF SMALL PARTICLE SIZE. DISPERSION IN AIR AND STRONG IGNITION SOURCE MAY RESULT IN AN EXPLOSION.

===== Accidental Release Measures =====

Spill Release Procedures:PICK UP AND PLACE IN APPROPRIATE DISPOSAL CONTAINER.

===== Handling and Storage =====

Handling and Storage Precautions:NO SPECIAL PROCEDURE REQUIRED.  
Other Precautions:REMOVE TRACES OF MATERIAL DUST IF SOLDERING,WELDING,BRAZING,CUTTING OR OTHER PROCESS INVOLVING IGNITION SOURCES TO PREVENT A FIRE HAZARD.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IN CASE OF DUST CONDITIONS,USE NIOSH APPROVED RESPIRATOR FOR METAL DUST.  
Ventilation:LOCAL EXHAUST  
Protective Gloves:AS REQUIRED  
Eye Protection:SAFETY GLASSES  
Work Hygienic Practices:STANDARD PRACTICE  
Supplemental Safety and Health  
HEALTH HAZARDS,CONT'D:LEAVES A METALLIC TASTE IN THE MOUTH;RESULTS IN METAL FUME FEVER (FLU-LIKE SYMPTOMS).

===== Phys

ical/Chemical Properties =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:1100-2500F

Spec Gravity:7.8

Solubility in Water:NOT SOLUBLE

Appearance and Odor:SOLID METAL OBJECT. ANTI-RUST COATING HAS ODOR OF KEROSENE.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ACIDS,BASES OR STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products:METAL FUMES IF HEATED. ANTI-RUST COATING IS COMBUSTIBLE AND WILL PRODUCE OXIDES OF CARBON.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IAW FEDERAL,STATE AND LOCAL REGULATIONS.

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