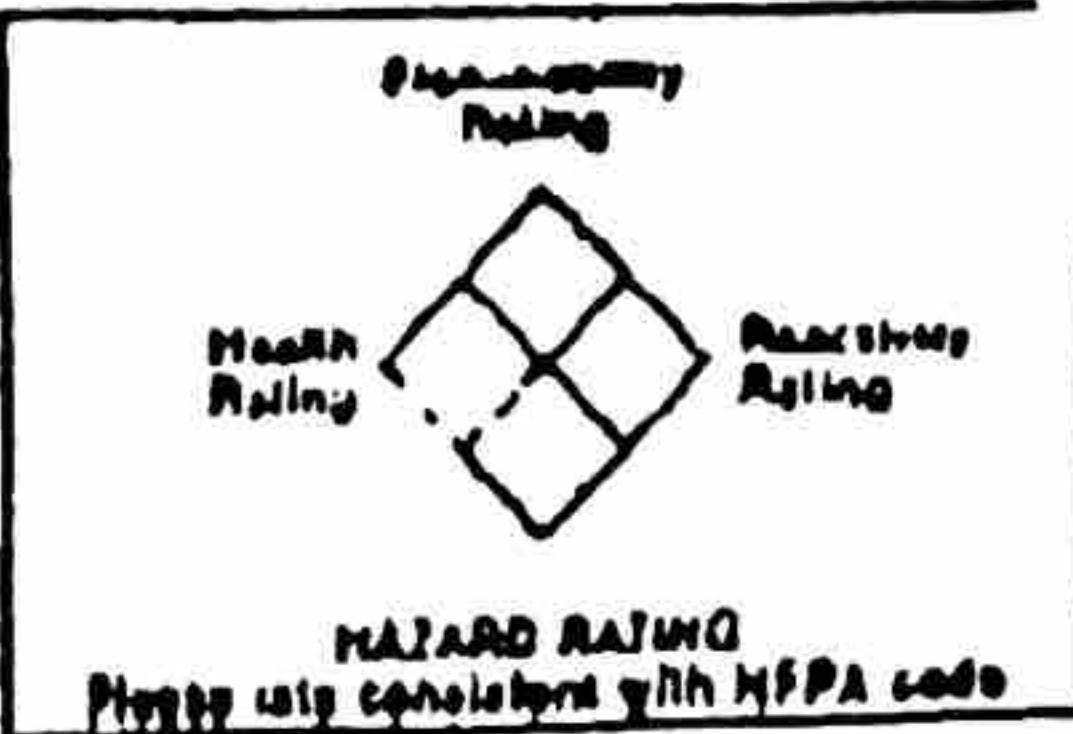




MATERIAL SAFETY DATA SHEET



MSDS NO. 31

DATE 10-6-95

SECTION I

PRODUCT NAME OR NUMBER (AS IT APPEARS ON LABEL) A-15 ALUMINUM COMPOUND	EMERGENCY TELEPHONE NO. 313-921-7030
MANUFACTURER'S NAME FORMAX MANUFACTURING CORPORATION	APPROVED BY H. J. MCALISTER
ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE) 3178 BELLEVUE, DETROIT, MICHIGAN 48207	MANUFACTURER'S D.U.N.S. NO. 00-536-4238
PROPER SHIPPING NAME NMFC-48580 SCOURING COMPOUND (CAKE, PASTE OR LIQUID FORM N.O.I.)	
ADDITIONAL HAZARD CLASSES (AS APPLICABLE) NOT REGULATED BY D.O.T.	
CHEMICAL FAMILY ORGANIC/INORGANIC	MIXTURE
FORMULA ABRASIVES IN GREASE MATRIX	

SECTION II COMPOSITION

CHEMICAL NAME	PERCENTAGE RANGE	COMMON NAME	REG. (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINOGEN? (Y/N)
SILICON DIOXIDE	66	AMORPHOUS SILICA	Y	14808-60-7	16mg/m ³ (Total Dust)	10mg/m ³	N/A
HYDROGENATED TAILLS	21	FATTY ACIDS		68953-184	NAI	N/A	N/A
STEARIC ACID	12			57-11-4	NAI	N/A	N/A
SURFACTANT		EMULSIFYING					
AMINES	1	WETTING AGENT		68412-54-4	NAI	N/A	N/A

SURFACTANTS, AMINES LESS THAN 1%
FORMAX HARD BAR, CAKE AND TUBE PACKAGED BUFFING COMPOUNDS ARE FORMULATED WITH ABRASIVES SURROUNDED IN A MATRIX OF GREASE BINDERS. THESE INGREDIENTS CAN BE, AND ARE VARIED TO SUIT INDIVIDUAL BUFFING NEEDS AND CONDITIONS FOR MAXIMUM PERFORMANCE. RESPIRABLE DUST AND DUST HAZARDS MAY BE CREATED DURING BUFFING. EXPOSURE LIMITS FOR DUST PARTICLES SHOULD NOT BE EXCEEDED.

Materials are regulated by OSHA 29 CFR 1910.1200, Hazard Communication Standard, and/or the Michigan Right To Know Regulations

SECTION III PHYSICAL AND CHEMICAL DATA

BOILING POINT OVER 300	MELTING POINT 145° F	SPECIFIC GRAVITY 1.5
VAPOR PRESSURE N/A	PERCENT VOLATILE BY VOL 0	VAPOR DENSITY N/A
EVAPORATION RATE N/A	SOLUBILITY IN WATER NIL	SOLUBILITY IN ALCOHOL SLIGHTLY
SOLUBILITY IN OTHER SOLVENT ALKALINE CLEANERS OR CHLORINATED SOLVENTS		APPEARANCE AND ODOR HARD CAKE - BLAND ODOR

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT OVER 400° F (METHOD USED)	FLAMMABLE LIMITS LEL/N/A UEL N/A
EXTINGUISHING MEDIA C.O. 2, DRY: CHEMICAL OR FOAM	
SPECIAL FIRE FIGHTING PROCEDURES TREAT BUFFING DUST, DIRT AND DEBRIS AS AN OIL FIRE	
EXPLOSION POTENTIAL NONE	

SECTION VI REACTIVITY DATA

STABILITY: UNSTABLE STABLE	X	CONDITIONS TO AVOID: NAI
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS OR REDUCING AGENTS		
HAZARDOUS DECOMPOSITION PRODUCTS: ON COMBUSTION HYDROCARBONS MAY FORM TO PRODUCE SMOKE, CARBON MONOXIDE, CARBON DIOXIDE.		
HAZARDOUS POLYMERIZATION	MAY OCCUR WILL NOT OCCUR	X CONDITIONS TO AVOID: USING UNDER CONDITION OF INSUFFICIENT DUST COLLECTING SYSTEM.

A-15

SECTION V HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION
INHALATION (DURING USE) ABRASIVE SWarf AND DUST	ACUTE - MAY CAUSE COUGHING, SHORTNESS OF BREATH CHRONIC - MAY AFFECT BREATHING CAPACITY (DUST)	REMOVE TO FRESH AIR APPLY ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN FIRST AID OR MEDICAL ASSISTANCE
INGESTION	NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED	OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED
SKIN CONTACT & ABSORPTION	IRRITATION OF THE SKIN MAY OCCUR DUE TO MECHANICAL/CHEMICAL ACTION	OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED
EYE	DUST MAY IRRITATE EYES	WASH WITH LARGE AMOUNTS OF WATER OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED
OTHER POTENTIAL HEALTH RISKS (PROLONGED INHALATION OF DUST PARTICLES MAY RESULT IN DISABLING PULMONARY FIBROSIS.)	SYMPTOMS MIGHT INCLUDE DEPOSITS OF MATERIALS IN EYES, EARS, NASAL PASSAGES, IRRITATION OF MUCUS MEMBRANES. WARNING: DO NOT BREATHE DUST OF COMPOUNDS CONTAINING ABRASIVE MATERIALS WITHOUT FOLLOWING OSHA SAFETY AND HEALTH STANDARDS FOR DUST ACCUMULATION COLLECTION.	OBTAIN MEDICAL ASSISTANCE

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SWEEP INTO CONTAINERS. STORAGE OF BUFFING WHEEL AND COMPOUND DEBRIS MAY CONTAIN COMBUSTIBLE LINT.

WASTE DISPOSAL METHOD: INCINERATE OR DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

CERCLA (SUPERFUND) REPORTABLE QUANTITY (IN LBS.)	N/A
RCRA HAZARDOUS WASTE NO. (40 CFR 261.33)	N/A
VOLATILE ORGANIC COMPOUND (VOC) (AS PACKAGED, MINUS WATER)	N/A
<input checked="" type="checkbox"/> THEORETICAL <u>~0~</u> lb/gal	<input type="checkbox"/> ANALYTICAL <u>~0~</u> lb/gal

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): OSHA 24 CFR/134 NIOSH/MSHA APPROVED RESPIRATORS FOR PARTICULATES FROM BUFFING DEBRIS.

VENTILATION: LOCAL EXHAUST: GENERAL ROOM VENTILATION
MECHANICAL (GENERAL): RECOMMEND VENTING TO DUST COLLECTORS

PROTECTIVE GLOVES: AS DESIRED BY USER.

EYE PROTECTION: OSHA 29 CFR 1910.122 SAFETY GLASSES

OTHER PROTECTIVE EQUIPMENT: PROTECTIVE WORK CLOTHING, BODY APRON OR BELLY PADS, SAFETY SHOES, AS NEEDED.

HEARING PROTECTION: OSHA 29 CFR 1910.216 (HEARING PROTECTION)

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: HANDLE WITH ADEQUATE VENTILATION FOR NUISANCE DUST WHEN USING. SEE OSHA 29 CFR 1910.24 (VENTILATION) AND 29 CFR 1910.1000 (AIR CONTAMINANTS). OTHER PRECAUTIONS: KEEP LIQUIDS FROM FREEZING. STORE AWAY FROM EXCESSIVE HEAT.

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