



KLINGSPOR

Material Safety Data Sheet

(MSDS)

The Most Sanding Power for Your Money!



MANUFACTURER'S NAME:
KLINGSPOR ABRASIVES, INC.

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Applications Department

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TRADE NAME, COMMON NAME OR SPECIFICATION:

- 1) Coated Abrasives Products
- 2) Resinoid Bonded Abrasive Flapwheels (Grinding Discs and Cut-Off Wheels)

APPROVED BY: KAI, GmbH
Date: July 12, 2001

PRODUCT TYPE:

- Aluminum Oxide, Silicon Carbide, Alumina-Zirconia
- 1) Coated onto a backing of cloth, paper or vulcanized fibre using hide glue or phenolic resin.
 - 2) Bonded with phenolic resin arid reinforced with woven fibreglass mesh.

SECTION II COMPOSITION MAY CONTAIN ONE OR MORE OF THE FOLLOWING:

CHEMICAL NAME	COMMON NAME	OSHA REG (Y/N)	CAS#	OSHA PERMISSIVE EXPOSURE LIMIT	ACIH TLV	CARCINOGEN (Y/N)
Al ₂ O ₃	Aluminum Oxide	Y	1344-28-1	15mg/M ³	10mg/M ³	N
SiC	Silicon Carbide	Y	409-21-2	15mg/M ³	10mg/M ³	N
Al ₂ O ₃ -ZrO ₂	Alumina Zirconia	Y	1314-23-4	15mg/M ³	10mg/M ³	N
NA ₃ AlF ₆	Cryolite	Y	15096-52-3	N/A	N/A	N
KBF ₄	Potassium Floroborate		14075-53-7	N/A	N/A	N
	Cured Phenolic Resin		60304-36-1	N/A	N/A	N
CaO	Calcium Oxide		1305-78-8	2mg/M ³	N/A	N
Zn(C ₁₈ H ₃ O ₂) ₂	Zinc Stearate		557-05-1	N/A	10mg/M ³	N

Materials are regulated by OSHA 29 CFR 1910, 1200 Hazard Communication Standard.

SECTION III PHYSICAL AND CHEMICAL DATA

BOILING POINT:	N/A	MELTING POINT:	N/A	SPECIFIC GRAVITY:	N/A
VAPOR PRESSURE:	N/A	PERCENT VOLATILE BY VOL:	N/A	VAPOR DENSITY:	N/A
EVAPORATION RATE:	N/A	SOLUBILITY IN WATER:	NO	SOLUBILITY IN ALCOHOL:	N/A
			APPEARANCE AND ODOR:		
			1) Paper, cloth or fibre coated with abrasive grain-No odor		
			2) Pressed arid bonded discs and wheels-No odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A	METHOD USED: N/A	FLAMMABLE ELEMENTS. LEV: N/A	UEL: N/A
EXTINGUISHING MEDIA:	Any proper fire-fighting material can be used.		
SPECIAL FIRE FIGHTING PROCEDURES:	Backing & resin binder will burn or decompose,use respiratory protection.		
EXPLOSION POTENTIAL:	N/A		

NFPA RATINGS

Health	1
Flammability	0
Reactivity	0
Personal protection	C

SECTION V HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY	ACUTE & CHRONIC HEALTH EFFECTS & EFFECTS OF OVEREXPOSURE	FIRST AID & MEDICAL INFORMATION
INHALATION (DUST)	ACUTE - MAY CAUSE COUGHING SHORTNESS OF BREATH. CHRONIC-MAY AFFECT BREATHING CAPACITY	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	NOT ABSORBED THROUGH SKIN; MAY CAUSE ABRASIONS.	OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.
EYE CONTACT	DUST MAY IRRITATE EYES	WASH WITH LARGE AMOUNT OF WATER. OBTAIN MEDICAL ASSISTANCE, IF NEEDED.
OTHER POTENTIAL HEALTH RISKS	DURING USE ON SOME MATERIALS ELEVATED SOUND LEVELS MAY BE CREATED WHICH AFFECT HEARING.	OBTAIN MEDICAL ASSISTANCE.

SECTION VI CORROSIVITY AND REACTIVITY DATA

STABILITY:	UNSTABLE <input type="checkbox"/>	STABLE <input checked="" type="checkbox"/>	POLYMERIZATION:	MAY OCCUR <input type="checkbox"/>	WILL NOT OCCUR <input checked="" type="checkbox"/>
INCOMPATIBILITY:	(MATERIAL TO AVOID) N/A	NONE	CONDITIONS TO BE AVOIDED:	NONE	
DECOMPOSITION PRODUCTS:	In use, dust and decomposing resin system fumes are generated. In most cases, the material removed from the work piece will be significantly greater than the coated abrasive product components.				

SECTION VII STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDING:	Handle with adequate ventilation. See OSHA 29CFR1910.94 (Ventilation) and OSHA 29CFR1910.1000 (Air Contaminates)
NORMAL USE:	Handle with adequate ventilation. See OSHA 29CFR1910.94 (Ventilation) and OSHA 29CFR1910.1000 (Air Contaminates) OSHA CRF1910.213 (P) Sanding Machines.
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS:	Normal clean up procedures. Vacuum dust
WASTE DISPOSAL METHOD:	Standard landfill methods consistent with applicable Federal, State and Local Laws

SECTION VIII PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	(SPECIFY TYPE) As needed, approved dust respirator OSHA 24 CFR1910-134. NOISH/MSHA
VENTILATION: LOCAL:	Recommended
	MECHANICAL (GENERAL): Recommended
PROTECTIVE GLOVES:	Leather gloves as desired by user.
EYE PROTECTION:	Recommend-OSHA 29CFR1910.133 (Face & Eye Protection)
OTHER EQUIPMENT:	As needed, hearing protection - OSHA 29CFR1 910.215 (Hearing Protection) All recommendations as per ANSI 37.1 Safety Guidelines.
MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL:	No special precautions necessary.

In compliance with Federal OSHA Standard 29CFR 1910. 1200 contained herein are Material Safety Data Sheets (MSDS) for the entire product line currently offered by Klingspor Abrasives, Inc.; for coated abrasives and bonded abrasives.

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, KLINGSPOR ABRASIVES, INC. makes no warranty with respect to the accuracy of the information for the suitability of the recommendations and assumes no liability to any user thereof.

Please contact our Applications Department at 1-800-645-5555 if you have further questions or comments.

Sincerely,

Applications Department

KLINGSPOR ABRASIVES, INC.