

ITEM: 1AUD8 - Cut Off Wheel 4.5 D 7/8 Hole RPM 1

MSDS: A9508

ORDER: 0032403717

LP NUMBER: U173827873-A

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

SAFETY DATA SHEET - A9508

1 Grainger Items  
 AUL1, AUL2, AUL3, AUL4, AUL5, AUL6, AUL7, AUL8, AUL9, AUL10, AUL11, AUL12, AUL13, AUL14, AUL15, AUL16, AUL17, AUL18, AUL19, AUL20, AUL21, AUL22, AUL23, AUL24, AUL25, AUL26, AUL27, AUL28, AUL29, AUL30, AUL31, AUL32, AUL33, AUL34, AUL35, AUL36, AUL37, AUL38, AUL39, AUL40, AUL41, AUL42, AUL43, AUL44, AUL45, AUL46, AUL47, AUL48, AUL49, AUL50, AUL51, AUL52, AUL53, AUL54, AUL55, AUL56, AUL57, AUL58, AUL59, AUL60, AUL61, AUL62, AUL63, AUL64, AUL65, AUL66, AUL67, AUL68, AUL69, AUL70, AUL71, AUL72, AUL73, AUL74, AUL75, AUL76, AUL77, AUL78, AUL79, AUL80, AUL81, AUL82, AUL83, AUL84, AUL85, AUL86, AUL87, AUL88, AUL89, AUL90, AUL91, AUL92, AUL93, AUL94, AUL95, AUL96, AUL97, AUL98, AUL99, AUL100, AUL101, AUL102, AUL103, AUL104, AUL105, AUL106, AUL107, AUL108, AUL109, AUL110, AUL111, AUL112, AUL113, AUL114, AUL115, AUL116, AUL117, AUL118, AUL119, AUL120, AUL121, AUL122, AUL123, AUL124, AUL125, AUL126, AUL127, AUL128, AUL129, AUL130, AUL131, AUL132, AUL133, AUL134, AUL135, AUL136, AUL137, AUL138, 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UNITED ABRASIVES MSDS: #1/2

RESINOID BONDED ABRASIVES

12/06

MATERIAL SAFETY DATA SHEET

1

PRODUCT IDENTITY / TRADE NAME:  
 GRINDING AND CUTTING WHEELS, RESINOID (TYPE 1, TYPE 27, TYPE 28, TYPE 29)  
 GRINDING WHEELS (TYPE 11) CONES AND PLUGS (TYPE 16, TYPE 17 AND TYPE 18),  
 COINIS, UA-MTX, UA-GFX, A36F, A54F.

UNITED MANUFACTURER:  
 UNITED ABRASIVES, INC.  
 P.O. BOX 75, ROUTE 66  
 ILLINOIS, IL 62226

SDS DATE OF PREPARATION: DECEMBER 7, 2006

INFORMATION PHONE: (860) 456-7131

EMERGENCY PHONE: (860) 456-7131

2. HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE:  
 MUST MAY CAUSE EYE AND RESPIRATORY IRRITATION. DUST PARTICLES MAY CAUSE  
 ABRASIVE INJURY TO THE EYES.

CHRONIC EFFECTS OF OVEREXPOSURE:  
 LONG-TERM OVEREXPOSURE TO RESPIRABLE DUST MAY CAUSE LUNG DAMAGE (FIBROSIS)  
 WITH SYMPTOMS OF COUGHING, SHORTNESS OF BREATH AND DIMINISHED BREATHING  
 CAPACITY. CHRONIC EFFECTS MAY BE AGGRAVATED BY SMOKING. PROLONGED EXPOSURE  
 TO HIGH NOISE LEVELS DURING OPERATIONS MAY AFFECT HEARING. A GREATER  
 RISK OF HEARING LOSS IS THE EXPOSURE TO THE DUST/FUMES FROM THE MATERIAL  
 BEING GRINDED. MOST OF THE DUST GENERATED DURING GRINDING  
 IS FROM THE BASE MATERIAL BEING GRINDED AND THE POTENTIAL HAZARD FROM THIS  
 EXPOSURE MUST BE EVALUATED.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: CHRONIC RESPIRATORY DISEASE.

PRIMARY ROUTE(S) OF EXPOSURE: INHALATION

LISTED CARCINOGEN:  
 TITANIUM DIOXIDE IS LISTED BY IARC AS A GROUP 2B CARCINOGEN (SUSPECTED HUMAN  
 CARCINOGEN). NONE OF THE OTHER COMPONENTS IS LISTED AS A CARCINOGEN OR  
 POTENTIAL CARCINOGEN BY OSHA, NTP OR IARC.

3. COMPOSITION

HAZARDOUS COMPONENT	CAS #	%
ALUMINUM OXIDE	1344-28-1	0-70
AND/OR SILICON CARBIDE	409-21-2	0-70
AND/OR ZIRCONIUM OXIDE	1314-23-4	0-30
AND/OR CUBITRON	N/A	0-20
AND/OR TITANIUM DIOXIDE	13463-67-7	0-5
CURED PHENOLIC RESIN	N/A	5-20
AND/OR WOVEN FIBERGLASS	N/A	0-20
AND/OR CALCIUM CARBONATE	1317-65-3	0-2
AND/OR CALCIUM OXIDE	1305-78-8	0-5
AND/OR BARIUM SULFATE	7727-43-7	0-5
AND/OR SULFUR	7704-34-9	0-5
AND/OR ZINC SULFIDE	1314-98-3	0-5
AND/OR MAGNESIUM OXIDE	1309-48-4	0-5
AND/OR IRON OXIDE	1309-37-1	0-5
AND/OR GRAPHITE	7782-42-5	0-5
AND/OR IRON PYRITE	12068-85-8	0-20
AND/OR CRYOLITE	15096-52-3	1-10
AND/OR POTASSIUM FLUOROBORATE	14075-53-7	0-5

4. FIRST AID

INGESTION: IF GRINDING DUST IS SWALLOWED, SEEK MEDICAL ATTENTION.

INHALATION:  
 IF OVEREXPOSED TO GRINDING DUST, REMOVE VICTIM TO FRESH AIR AND GET MEDICAL  
 ATTENTION.

EYE CONTACT:  
 FLUSH EYES THOROUGHLY WITH WATER, HOLDING OPEN EYELIDS. GET MEDICAL  
 ATTENTION IF IRRITATION PERSISTS. OBTAIN IMMEDIATE MEDICAL ATTENTION FOR  
 FOREIGN BODY IN THE EYE.

SKIN CONTACT: WASH DUST FROM SKIN WITH SOAP AND WATER.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NON-COMBUSTIBLE

FLAMMABLE LIMITS:  
 LEL: N/A  
 UEL: N/A

EXTINGUISHING MEDIA:  
 USE ANY MEDIA THAT IS APPROPRIATE FOR THE SURROUNDING FIRE.

SPECIAL FIREFIGHTING PROCEDURES: NONE NEEDED.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 THIS PRODUCT IS NOT COMBUSTIBLE, HOWEVER, CONSIDERATION MUST BE GIVEN TO THE  
 POTENTIAL FIRE/EXPLOSION HAZARDS FROM THE BASE MATERIAL BEING PROCESSED.  
 MANY MATERIALS CREATE FLAMMABLE/EXPLOSIVE DUSTS OR TURNINGS WHEN MACHINED OR  
 GROUND.

HAZARDOUS COMBUSTION PRODUCTS: NONE KNOWN.

6. ACCIDENTAL RELEASE MEASURES

PICK UP, SWEEP UP OR VACUUM AND PLACE IN A CONTAINER DISPOSAL. MINIMIZE  
 GENERATION OF DUST. NOTIFY AUTHORITIES AS REQUIRED BY LOCAL, STATE AND  
 FEDERAL REGULATIONS.

7. HANDLING AND STORAGE

RECOMMENDED WORK PRACTICES:  
 USE ONLY WITH ADEQUATE VENTILATION. AVOID BREATHING DUST. WASH THOROUGHLY  
 AFTER HANDLING AND USE, ESPECIALLY BEFORE EATING, DRINKING OR SMOKING. REFER  
 TO ANSI B7.1, SAFETY REQUIREMENTS FOR THE USE, CARE AND PROTECTION OF  
 ABRASIVE WHEELS FOR ADDITIONAL INFORMATION.

STORAGE:  
 STORE IN ACCORDANCE WITH ANSI B7.1. PROTECT ABRASIVE WHEELS FROM DAMAGE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
ALUMINUM OXIDE	15 MG/M3*	10 MG/M3
SILICON CARBIDE	15 MG/M3*	NONE ESTABLISHED
ZIRCONIUM OXIDE	5 MG/M3	5 MG/M3
CUBITRON	NONE ESTABLISHED	NONE ESTABLISHED
TITANIUM DIOXIDE	15 MG/M3*	10 MG/M3
CURED PHENOLIC RESIN	NONE ESTABLISHED	NONE ESTABLISHED
WOVEN FIBERGLASS	15 MG/M3*	1 F/CC
CALCIUM CARBONATE	15 MG/M3*	10 MG/M3
CALCIUM OXIDE	5 MG/M3	2 MG/M3
BARIUM SULFATE	15 MG/M3*	10 MG/M3
SULFUR	NONE ESTABLISHED	NONE ESTABLISHED
ZINC SULFIDE	NONE ESTABLISHED	NONE ESTABLISHED
MAGNESIUM OXIDE	15 MG/M3*	10 MG/M3
IRON OXIDE	10 MG/M3	5 MG/M3
GRAPHITE	15 MG/M3*	2 MG/M3**
IRON PYRITE	NONE ESTABLISHED	NONE ESTABLISHED
CRYOLITE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3
POTASSIUM FLUOROBORATE (AS FLUORIDES)	2.5 MG/M3	2.5 MG/M3

\*TOTAL DUST

\*\*RESPIRABLE PARTICULATE

VENTILATION:  
 USE LOCAL EXHAUST OR GENERAL VENTILATION AS REQUIRED TO MINIMIZE EXPOSURE  
 TO DUST AND MAINTAIN THE CONCENTRATION OF CONTAMINANTS BELOW THE TLVs.

RESPIRATORY PROTECTION:  
 USE NIOSH APPROVED RESPIRATOR IF EXPOSURE LIMITS ARE EXCEEDED OR WHERE DUST  
 EXPOSURES ARE EXCESSIVE. SELECTION OF RESPIRATORY PROTECTION DEPENDS ON THE  
 CONTAMINANT TYPE, FORM AND CONCENTRATION. SELECT AND USE RESPIRATORS IN  
 ACCORDANCE WITH OSHA 1910.134 AND GOOD INDUSTRIAL HYGIENE PRACTICE.

GLOVES: CLOTH OR LEATHER GLOVES RECOMMENDED.

EYE PROTECTION: SAFETY GOGGLES OR FACE SHIELD.

OTHER:  
PROTECTIVE CLOTHING AS NEEDED TO PREVENT CONTAMINATION OF PERSONAL CLOTHING.  
HEARING PROTECTION MAY BE REQUIRED FOR GRINDING OPERATIONS

9. PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY: N/A  
SOLUBLE IN WATER: INSOLUBLE  
SPECIFIC GRAVITY: N/A  
MELTING POINT: N/A  
VAPOR PRESSURE (MMHg): N/A  
VAPOR DENSITY (AIR = 1): N/A  
EVAPORATION RATE: N/A  
APPEARANCE AND ODOR: SOLID WHEEL, BLACK, BROWN OR REDDISH COLOR.

10. STABILITY AND REACTIVITY DATA

STABILITY: STABLE  
REACTIVITY/INCOMPATIBILITY (MATERIALS OR CONDITIONS TO AVOID): NONE KNOWN.  
HAZARDOUS DECOMPOSITION PRODUCTS:  
JUST FROM GRINDING COULD CONTAIN INGREDIENTS LISTED IN SECTION 2 AND OTHER,  
POTENTIALLY MORE HAZARDOUS COMPONENTS OF THE BASE MATERIAL BEING GROUND OR  
COATINGS APPLIED TO THE BASE MATERIAL.  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11. TOXICOLOGICAL DATA

TOXICITY DATA IS AVAILABLE FOR THIS PRODUCT. THIS PRODUCT IS NOT ACUTELY  
TOXIC.

12. ECOLOGICAL DATA

NO ECOLOGICAL DATA IS AVAILABLE FOR THIS PRODUCT. NO HAZARDS TO THE  
ENVIRONMENT ARE EXPECTED FROM THIS PRODUCT. HOWEVER, CONSIDERATION MUST BE  
GIVEN TO POTENTIAL ENVIRONMENT EFFECTS OF THE BASE MATERIAL BEING GROUND.

13. DISPOSAL

FOLLOW ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

14. TRANSPORTATION DATA

THIS PRODUCT IS NOT REGULATED FOR TRANSPORTATION.

15. ENVIRONMENTAL REGULATORY DATA

OSHA SECTION 311/312 HAZARD CATEGORIES: N/A

OSHA SECTION 313:

SOME PRODUCTS CONTAIN THE FOLLOWING 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 (TOXIC CHEMICAL RELEASE  
REPORTING:

IRON SULFIDE 1314-98-3 0-5%

(ONLY IN TYPE 29 CHALLENGER FLEXIBLE GRINDING/BLENDING WHEELS)

CALIFORNIA PROPOSITION 65:

THIS IS NOT KNOWN TO CONTAIN CHEMICALS REGULATED UNDER THE CALIFORNIA SAFE  
DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986.

CANADIAN WHMIS CLASSIFICATION:

NOT A CONTROLLED PRODUCT. THIS PRODUCT MEETS THE DEFINITION OF A  
"MANUFACTURED ARTICLE" UNDER THE WHMIS REGULATIONS.

16. OTHER INFORMATION

EPA HAZARD RATING:  
HEALTH 1  
ENVIRONMENT 0  
REACTIVITY 0

DATE PREVIOUS REVISION: 4/9/03

DATE THIS REVISION: 12/7/06

REVISION SUMMARY: COMPREHENSIVE REVIEW, MOVED EXPOSURE LIMITS TO SECTION 8.

PREPARED BY: DENESE A. DEEDS, CIH IH&SC INC., WOODBRIDGE, CT 06525

THE PRECEDING INFORMATION IS BELIEVED TO BE CORRECT AND CURRENT AS OF THE  
DATE OF PREPARATION OF THIS MATERIAL SAFETY DATA SHEET. SINCE THE USE OF  
THIS INFORMATION AND THE CONDITIONS OF USE OF THIS PRODUCT ARE NOT WITHIN  
THE CONTROL OF UNITED ABRASIVES, INC., IT IS THE USERS OBLIGATION TO ASSURE  
SAFE USE OF THIS PRODUCT.