

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER/NAME: Corundum Aluminum Oxide Resin Bonded Grinding Wheels

PRODUCT PART NUMBERS: 520602, 502603, 502604

PRODUCT USE: Inorganic Bonded Grind Wheel used on Automatic Tungsten Grinder for Grinding Several Materials

MANUFACTURER: Cronitex GmbH

ADDRESS: Zum Scheider Feld 18, D-51467 Bergisch Gladbach, Germany

TELEPHONE NUMBER: 011 49 2202/984411

SUPPLIER: American Weldquip, Inc.

ADDRESS: 1375 Wolf Creek Trail, Sharon Center, Ohio 44274

TELEPHONE NUMBER: (330) 239-0317

EMERGENCY PHONE: 1- (330) 239-0317 (7:00am – 5:00pm USA Eastern Time)

SECTION 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Not classified as hazardous as defined by the GHS and OSHA 29 CFR 1910.1200

LABEL ELEMENT SIGNAL WORD: None

HAZARD STATEMENT: None

PICTOGRAMS: Select

PRECAUTIONARY STATEMENTS:

PREVENTION: Do not breathe dust from grinding operation. Use proper respiratory equipment.

RESPONSE: NA

STORAGE: NA

DISPOSAL: NA

HAZARDS NOT OTHERWISE CLASSIFIED: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:

CHEMICAL NAME	% COMPOSITION	CAS Number	EINECS Number
Aluminum Oxide	70-90%	1344-28-1	215-691-6
Phenolic Resin (Cured)	10-30%	1344-28-1	215-691-6
Melted Bonded Quartz	10-30%	60676-86-0	-

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: 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: Wash dust from skin with soap and water. Launder contaminated clothing before reuse

INGESTION: If grinding dust is swallowed, seek medical attention

INHALATION: If overexposed to grinding dust, remove victim to fresh air and get medical attention

MOST IMPORTANT SYMPTOMS AND EFFECTS:

ACUTE: Eye and skin contact with grinding dust may cause mechanical irritation

DELAYED: Eye and skin contact with grinding dust may cause mechanical irritation

RECOMMENDATIONS FOR IMMEDIATE MEDICAL CARE AND SPECIAL TREATMENT IF REQUIRED:

Immediate medical attention is generally not required

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use any media that is appropriate for the surrounding fire

UNSUITABLE SUITABLE EXTINGUISHING MEDIA: NA

SPECIAL HAZARDS ARISING FROM SUBSTANCE: This product is not combustible, however, consideration must be given to the potential fire or explosion hazards from the base material being processed. Many materials create flammable or explosive dusts or turnings when machined or ground. Hazardous fumes can occur.

HAZARDOUS COMBUSTION PRODUCTS:

SPECIAL PROTECTIVE EQUIPMENT OR PRECAUTIONS FOR FIRE-FIGHTERS: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus

NFPA RATINGS: HEALTH: 1 FIRE: 0 REACTIVITY: 0

HAZARD SCALE: 0=MINIMUM, 1=SLIGHT, 2=MODERATE, 3=SEROIOUS, 4=SEVERE

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE QUIPMENT AND EMERGENCY PROCEDURES: Wear appropriate respirator and protective clothing as needed to avoid eye contact and inhalation of dust.

ENVIRONMENTAL PRECAUTIONS: Avoid release into the environmental. Report releases as required by local, state and federal authorities.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN-UP: Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid breathing dust. Use with adequate ventilation. Avoid eye and skin contact with grinding dust. Wear suitable gloves, eye protection and appropriate protective clothing according to the operation. Wash thoroughly after handling.

RECOMMENDATIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES: Store in dry location.

ENVIRONMENTAL EXPOSURE CONTROL: Consider potential exposure to components of the base materials or coatings being ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT EXPOSURE LIMITS:

Aluminum Oxide	10mg/m3 TLV-TW
Phenolic Resin	10mg/m3 TLV-TW
Melted Bonded Quartz	10mg/m3 TLV-TW

ENGINEERING MEASURES/CONTROLS: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

VENTILATION/RESPIRATORY PROTECTION : Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive. Consider the potential for exposure to components of the coatings or base material being ground in selecting proper respiratory protection. Refer to OSHA's specific standards for lead, cadmium, etc. where appropriate. 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.

EYE/FACE PROTECTION: At a minimum always wear safety glasses with side shields. Additional protection such as goggles, face shields or resperators may be required.

SKIN PROTECTION: Cloth or leather gloves recommended.

WORK HYGIENIC PRACTICES: Always wash hands on a regular basis. Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Rough Surface	FLAMMABLE UPPER/ LOWER LIMITS:	Not applicable
SPECIFIC PHYSICAL FORM:	Solid	VAPOR PRESSURE:	Not applicable
COLOR:	Pink, Brown or White	VAPOR DENSITY:	Not applicable
ODOR:	None	RELATIVE DENSITY:	Not applicable
ODOR THRESHOLD:	Not applicable	SPECIFIC GRAVITY:	>1
PH:	Not applicable	SOLUBILITY(ies):	Not applicable
BOILING POINT:	Not applicable	PARTITION COEFFECIENT: N-OCTANOL/WATER:	Not applicable
MELTING/FREEZING POINT:	Not applicable	AUTOIGNITION TEMPERATURE:	Not applicable
FLASH POINT:	Not applicable	DECOMPOSITION TEMPERATURE:	Not applicable
EVAPORATION RATE:	Not applicable	VISCOSITY:	Not applicable
FLAMMABILITY (SOLID, GAS):	Not applicable		

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No dangerous reaction known under normal conditions of use.

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

POSSIBLE HAZAROUS REACTIONS: Not Determined

CONDITIONS TO AVOID: Not Determined

INCOMATIBLE MATERIALS: None Known

HAZARDOUS DECOMPOSITION PRODUCTS: Dust from grinding could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being ground or coatings applied to the base material.

SECTION 11: TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF EXPOSURE

INHALATION: Dust may cause respiratory irritation.

SKIN CONTACT: None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

EYE CONTACT: Dust may cause eye irritation. Dust particles may cause abrasive injury to the eyes.

INGESTION: None expected under normal use conditions. Swallowing large pieces may cause obstruction of the gastrointestinal tract.

CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE: 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 elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated.

NUMERICAL MEASURES OF TOXICITY:

NAME	DESCRIPTION	VALUE
ACUTE TOXICITY	Not Known to be Toxic	
SKIN CORROSION/IRRITATION	Not Known to be Toxic	
SERIOUS EYE DAMAGE/IRRITATION	Not Known to be Toxic	
SKIN SENSATION	Not Known to be Toxic	
RESPIRATORY SENSATION	Not Known to be Toxic	
GERM CELL MUTAGENICITY	Not Known to be Toxic	
CARCINOGENICITY	None of the components are listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.	
REPRODUCTIVE AND/OR DEVELOPMENTAL EFFECTS	Not Known to be Toxic	
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE	Not Known to be Toxic	
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE	Not Known to be Toxic	
ASPIRATION HAZARD	Not Known to be Toxic	

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY: Not Determined
PERSISTENCE AND DEGRADABILITY: Not Determined
BIOACCUMULATIVE POTENTIAL: Not Determined
MOBILITY IN SOIL: Not Determined
OTHER ADVERSE EFFECTS: Not Determined

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL METHOD:

Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

CONTAMINATED CONTAINER OR PACKAGING:

Dispose of spent containers and packaging in accordance with all federal, state, regional and/or local regulations.

EPA HAZARDOUS WASTE NUMBER RCRA HAZARD CLASS: None

SECTION 14: TRANSPORT INFORMATION

UN NUMBER:	Not Regulated for transport
UN PROPER SHIPPING NAME:	Not Applicable
TRANSPORT HAZARD CLASS(es):	Not Applicable
PACKING GROUP NUMBER:	Not Applicable
ENVIRONMENTAL HAZARDS:	Not Determined
TRANSPORT IN BULK:	Not Regulated
SPECIAL PRECAUTIONS FOR USER:	None Specified

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA): The product listed on this SDS, or all of its components, is listed under TSCA SARA TITLE III, SECTION 313: The following ingredients are subject to the reporting requirements of section 313 of Title III of the Superfund and Reauthorization Act of 1986 and 40 CFR Part 372: NONE

CLEAN AIR ACT (CAA): The following ingredients appear on the list of Hazardous Air Pollutants (HAP-42 USC 7412, Title I, Part A, p112): NONE

CLEAN WATER ACT (CWA): The following ingredients appear on the CWA List of Hazardous Substances (40 CFR 116.4): NONE

CALIFORNIA PROPOSITION 65: The following ingredients appear on the Proposition 65 list: **WARNING!** You create dust when you cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal. This dust often contains chemicals known to cause cancer, birth defects or other reproductive harm.

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS): This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

DOMESTIC SUBSTANCES LIST (DSL): The product on this SDS, or all of its components, is included in the DSL.

SECTION 16: OTHER INFORMATION

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE THE INFORMATION IN THIS SAFETY DATA SHEET (SDS) IS BELIEVED TO BE CORRECT AS OF THE DATE ISSUED. USER ASSUMES ALL RISKS INCIDENTS TO THE USE OF THIS PRODUCT. USER IS RESPONSIBLE FOR DETERMINING WHETHER THIS PRODUCT IS FIT FOR A PARTICULAR PURPOSE AND SUITABLE FOR USER'S APPLICATION. IT IS ESSENTIAL THAT THE END USER EVALUATE THIS PRODUCT TO DETERMINE WHETHER IT IS FIT FOR USE FOR A PARTICULAR END USER APPLICATION. WE CANNOT GUARANTEE THAT THE HAZARDS LISTED IN THIS SDS ARE THE ONLY ONES THAT EXIST.

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