

**1. IDENTIFICATION**

**Product identifier:** Shellac Bonded Abrasive Products

**Trade Name:** Conventional Grinding Wheels or Stones with a Bond Specification “E”

**Distributor** Tyrolit Industrial Abrasives  
6165 Kennedy Road,  
Mississauga, ON, L5T 2S8  
Canada

**Phone Number (08:00-16:00):** (905) 565-9880

**Fax Number:** (905) 565-9881

**2. HAZARD(S) IDENTIFICATION**

The hazard identification is based on a formalistic procedure as the hazard statements of the ingredients are summarized in section 3. This does not correspond to the hazardousness of the product itself.

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. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

**Classification:**

Physical	Health	Environment
Not Hazardous	Carcinogen Category 2	Not Hazardous

**Hazards not otherwise classified:** None

**Symbol(s)**



**Signal word**

Warning!

**Hazard statement(s)**

H351 Suspected of causing cancer by inhalation.

**Precautionary statement(s)**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P308+P313 If exposed or concerned: Get medical advice or attention.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Mixtures:**

Chemical name	CAS No.	Concentration
Aluminum Oxide	1344-28-1	≤95
Silicon Carbide	409-21-2	≤95
Kyanite	1302-76-7	≤22.7
Phenol Formaldehyde Polymer	9003-35-4	≤20
Cured Epoxy Resin	NA	≤20
Titanium Dioxide	13463-67-7	≤1%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret and to cover products of variable composition. For more information about the composition for sampling purposes, contact Tyrolit Industrial Abrasives.

### 4. FIRST-AID MEASURES

**Inhalation:** If exposed to dust from grinding: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical attention if breathing is difficult.

**Skin contact:** Wash dust from skin with soap and water. Launder contaminated clothing before reuse.

**Eye contact:** Do not rub. Flush eyes thoroughly with plenty of water for several minutes, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

**Ingestion:** If grinding dust is swallowed, seek medical attention.

**Most important symptoms/effects, acute and delayed:** Eye and skin contact with grinding dust may cause mechanical irritation. This product contains titanium dioxide, which is suspected of causing cancer based on animal studies. Risk of cancer depends on duration and level of exposure.

**Indication of immediate medical attention and special treatment, if necessary:** Immediate medical attention is generally not required. Risk of cancer depends on duration and level of exposure.

### 5. FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Use any media that is appropriate for the surrounding materials.

**Specific hazards arising from the chemical:** 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.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear appropriate respirator and protective clothing as needed to avoid eye contact and inhalation of dust.

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**Environmental precautions:** Avoid contamination of water supplies and environmental releases. Report spills as required to authorities.

**Methods and materials for containment and cleaning up:** Carefully collect dry material, avoiding the creation of airborne dust. Place in a suitable container for disposal.

### 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. 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.

**Conditions for safe storage, including any incompatibilities:** Store in accordance with ANSI B7.1. Protect abrasive wheels from damage.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure guidelines:**

Aluminum Oxide	15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction)
Silicon Carbide	0.1 mg/m <sup>3</sup> f/cc(F) TWA ACGIH TLV (including whiskers) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction)
Kyanite	None Established
Phenol Formaldehyde Polymer	None Established
Cured Epoxy Resin	None Established
Titanium Dioxide	10 mg/m <sup>3</sup> TWA ACGIH TLV 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Formaldehyde*	0.1 ppm TWA ACGIH TLV, 0.3 ppm STEL ACGIH TLV 0.2 0.75 ppm TWA OSHA PEL, 2 ppm STEL OSHA PEL

\*Product may release formaldehyde during use.

**Appropriate engineering controls:** Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs.

**Individual protection measures, such as personal protective equipment:**

**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.

**Skin protection:** Cloth or leather gloves recommended.

**Eye protection:** Safety goggles or face shield over safety glasses with side shields.

**Other:** Protective clothing as needed to prevent contamination of personal clothing. Hearing protection may be required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (physical state, color, etc.):** Solid Wheel or stone of various colors.

**Odor:** No Odor

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<b>Odor threshold:</b> Not applicable	<b>pH:</b> Not applicable
<b>Melting point/freezing point:</b> Not applicable	<b>Initial boiling point and boiling range:</b> Not applicable
<b>Flash point:</b> Non-Combustible	<b>Evaporation rate:</b> Not applicable
<b>Flammability (solid, gas):</b> Not applicable	<b>UEL:</b> Not applicable
<b>Flammable limits: LEL:</b> Not applicable	<b>Vapor density:</b>
<b>Vapor pressure:</b> Not applicable	<b>Solubility(ies):</b> Very slightly
<b>Relative density:</b> 1.5-3.1	<b>Auto-ignition temperature:</b> Not applicable
<b>Partition coefficient: n-ctanol/water:</b> Not applicable	<b>Viscosity:</b> Not applicable
<b>Decomposition temperature:</b> Not applicable	

### 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive

**Chemical stability:** Stable

**Possibility of hazardous reactions:** Will not occur.

**Conditions to avoid:** None known

**Incompatible materials:** Strong acids and bases

**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.

### 11. TOXICOLOGICAL INFORMATION

**Likely routes of exposure:**

**Inhalation:** Dust may cause respiratory irritation.

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

**Skin contact:** None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

**Eye contact:** Dust may cause serious eye irritation. Dust particles may cause abrasive injury to the eyes.

**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. Risk of cancer depends on the level and duration of exposure. 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:** This product and its components are not acutely toxic.

**Carcinogenicity:** Titanium dioxide is listed by IARC as a group 2B carcinogen (possible human carcinogen). None of the other components are listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available.

**Persistence and degradability:** Biodegradation is not applicable to inorganic compounds.

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

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### 13. DISPOSAL CONSIDERATIONS

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.

### 14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
<b>DOT</b>	None	Not Regulated	None	None	None
<b>TDG</b>	None	Not Regulated	None	None	None

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None identified.

### 15. REGULATORY INFORMATION

**SARA Section 311/312 Hazard Categories:** Not Applicable (manufactured articles)

**SARA Section 313:** This product contains 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):

Components	C.A.S. #	WT %
None		

**California Proposition 65:** 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 WHMIS Classification:** Not a controlled product. This product meets the definition of a "manufactured article" under the WHMIS regulations.

This SDS has been prepared in accordance with US OSHA HazCom 2012 and Canadian WHMIS 2015 regulations.

### 16. OTHER INFORMATION

**NFPA Rating:** Health = 1      Flammability = 0      Instability = 0  
**HMIS Rating:** Health = 1\*      Flammability = 0      Physical Hazard = 0  
\*Chronic Health Hazard

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### **Shellac Bonded Abrasive Products**

**Date of Revision:** 06/29/2022

**Reviewed:** 06/29/2022

The information and recommendations set forth are taken from sources believed to be accurate. Radiac Abrasives, Inc., a Tyrolit Company, makes no warranty with respect to the accuracy of this information or the suitability of these recommendations, assumes no liability to any user thereof. It is the responsibility of the user to investigate and understand pertinent sources of information to comply with all laws and procedures applicable to the safe use and handling of the product and to determine the suitability of the product for its intended use.

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**Produits abrasifs à liant de  
gomme-laque**

**DANGER**



**DANGER**

**Hazard statement(s)**

H351 Suspected of causing cancer by inhalation.

**Precautionary statement(s)**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.  
P308+P313 If exposed or concerned: Get medical advice or attention.  
P405 Store locked up.  
P501 Dispose of contents and container in accordance with local and national regulations.

Store only in original packaging.

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Mississauga, ON, L5T 2S8  
Canada  
Phone number: (905) 565-9880

**Mention(s) de danger**

H351 susceptible de provoquer le cancer par inhalation.

**Mise(s) en garde**

P201 Obtenir des instructions spéciales avant l'utilisation.  
P202 Ne pas manipuler jusqu'à ce que toutes les précautions de sécurité aient été lues et comprises.  
P281 Utiliser l'équipement de protection individuel, le cas échéant.  
P308+P313 En cas d'exposition ou de préoccupations : consulter un médecin.  
P405 Garder sous clé.  
P501 Éliminer le contenu et le contenant en accord avec les réglementations locales et nationales.

Conserver uniquement dans l'emballage d'origine.