

	Safety Data Sheet	Product Name: 514D/NK Version:2 Date of Preparation: 05/28/15
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Section 1. Identification

Product Name: 514D/NK

Recommended use: Abrasive product

Restrictions on use: None identified

Manufacturer Name: Starcke Abrasives USA, Inc.

Address: 9109 Forsyth Park Drive
Charlotte, NC 28273

Telephone number: +1 (704) 583 3338

E-Mail: sds@starckeusa.com

Emergency phone number: +1 (704) 583 3338
Mon-Fri 8:00 am-5:00pm

Date of Preparation: 05/28/15

Section 2. Hazard(s) Identification
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Classification: Not classified as hazardous

Label Elements:

Not Hazardous in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS)

Supplemental Labeling: 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 processed. Most of the dust generated during abrasive processing is from the base material or coatings 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.

Section 3. Composition / Information on Ingredients
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Chemical name	CAS No.	Concentration
Aluminum Oxide	1344-28-1	10-45%
Filler	1317-65-3	0-15%
Titanium Dioxide	13463-67-7	0-2%
Cured Resin	Mixture	5-30%
Backing	Mixture	25-70%

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

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Section 4. First-Aid Measures

Eyes: Remove contact lenses if present and easy to do. Flush eyes thoroughly with large amounts of water, holding eyelids open. If irritation persists, seek medical attention.

Skin: Wash skin with soap and water. If irritation or other symptoms develop, seek medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water. Seek medical attention if large amount is swallowed or if you feel unwell.

Inhalation: Move person to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Seek medical attention if irritation or other symptoms persist.

Most important symptoms/effects, acute and delayed: Dust may cause eye and respiratory irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. This product contains titanium dioxide. IARC has classified titanium dioxide as possibly carcinogenic to humans (2B). No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials. Exposure to dust generated from processing the base material or coatings may present additional health hazards.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention should not be required.

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: Use any media that is suitable for the surrounding fire. Do not use water on fires involving metals dusts. Use an appropriate dry powder.

Specific hazards arising from the chemical: This product is not flammable or 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.

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

Section 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.

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.

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Section 7. Handling and Storage

Precautions for safe handling: For industrial or professional use only. 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: No special storage required.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Ingredient	CAS No.		
Aluminum Oxide	1344-28-1	5 mg/m ³	TWA (respirable) OSHA
		15 mg/m ³	TWA (total dust) OSHA
		1 mg/m ³	TWA (respirable) ACGIH
Titanium Dioxide	13463-67-7	5 mg/m ³	TWA (respirable dust) OSHA
		15 mg/m ³	TWA (total dust) OSHA
		10 mg/m ³	TWA ACGIH
		5 mg/m ³	TWA (respirable dust) CMRG
Filler	1317-65-3	5 mg/m ³	TWA (respirable dust) OSHA
		15 mg/m ³	TWA (total dust) OSHA

Note: Consider also components of base materials and coatings being ground.

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Personal Protective Equipment:

Respiratory protection: Not necessary unless workplace concentrations of hazardous constituents exceed the exposure limits. If the exposure levels are excessive and irritation or other symptoms are experienced, an approved respirator should be worn. Consider the potential for exposure to components of the coatings or base material being ground in selecting proper respiratory protection. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134 and ANSI Z88.2 or other applicable regulations and standards and good Industrial Hygiene practice.

Skin protection: Protective gloves recommended to avoid skin abrasion when handling. Wear protective clothing as required to avoid skin contact when handling.

Eye protection: Use safety glasses with side shields or goggles.

Other: Hearing protection recommended if operation is noisy.

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Section 9. Physical and Chemical Properties
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Appearance: Solid
Odor: No odor.

Odor threshold: Not available	pH: Not applicable
Melting point/freezing point: Not available	Boiling point: Not available
Flash point: Not flammable	Evaporation rate: Not applicable
Flammability (solid, gas): Not flammable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not available	Vapor density: Not applicable
Relative density: Not available	Solubility in Water: Insoluble
Partition coefficient: n-octanol/water: Not applicable	Auto-ignition temperature: Not applicable
Decomposition temperature: Not available	

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions of use and storage.
Chemical stability: Stable
Possibility of hazardous reactions: None known.
Conditions to avoid: None known. .
Incompatible materials: None known.
Hazardous decomposition products: None known. Dust from grinding could contain potentially hazardous components of the base material being ground or coatings applied to the base material.

Section 11. Toxicological Information
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Acute effects of exposure:
Inhalation: Breathing dust may cause irritation to the nose, throat and upper respiratory tract.
Skin Contact: May cause abrasive skin irritation.
Eye Contact: May cause abrasive irritation and injury.
Ingestion: Not toxic. Swallowing may cause gastrointestinal disturbances or obstruction.
Chronic Health Effects: Dust may cause eye and respiratory irritation. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. This product contains titanium dioxide. IARC has classified titanium dioxide as possibly carcinogenic to humans(2B). No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated.
Sensitization: No data available for the product. Not expected to be a skin sensitizer based on human experience.
Germ Cell Mutagenicity: This product is not expected to present a risk of genetic damage.
Reproductive Toxicity: No specific data is available; however, this product is not expected to present a risk of adverse reproductive or developmental toxicity.
Carcinogenicity: This product contains titanium dioxide. IARC has classified titanium dioxide as possibly carcinogenic to humans(2B). No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials.

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Acute toxicity values:

Aluminum Oxide: LD50 Oral rat >10000 mg/kg; LC50 Inhalation rat >2.3 mg/L/4 hr
 Filler: LD50 oral rat = 6450mg/kg

Section 12. Ecological Information

No adverse effects on aquatic organisms are expected. However, consideration must be given to potential environment effects of the base material being processed.

Ecotoxicity values:

Aluminum oxide: NOEC 96 hr Salmo trutta >100 mg/L; NOEC 48 hr daphnia magna >100 mg/L; NOEC 72 hr Selenastrum capricornutum >100 mg/L

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: None known.

Section 13. Disposal Considerations

Dispose in accordance with all local, state and national 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.

Section 14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	None	Not Regulated	None	None	
TDG	None	Not Regulated	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.

