



# MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 10 99 15 / 10 99 01 / 10 99 02 / 10 99 03 / 10 17 20

## SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

### 1.1 Product identifier

PRODUCT: Superfine Abrasive Cut-off Wheels Type HNF  
Synonyms, Trade name No information available

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Abrasive product  
Description: Bonded abrasive cutting and grinding wheels with abrasive grain dispersed in a rubber bond.  
Uses advised against Any other purpose

### 1.3 Details of the supplier of the safety data sheet

SUPPLIER: METPREP LTD.  
CURRIERS CLOSE  
CHARTER AVENUE  
COVENTRY CV4 8AW  
CONTACT: sales@metprep.co.uk

### 1.4 Emergency telephone number

TELEPHONE: 024 7642 1222

## SECTION 2 SUBSTANCE HAZARD IDENTIFICATION

### 2.1 Signal words

Not Applicable

### 2.2 Pictograms

Not Applicable

### 2.3 Hazards statements

Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes. Using wheels in excess of recommended operating speeds may result in serious injury due to wheel breakage.

### 2.4 Precautionary statements

Use with adequate ventilation Avoid breathing dust. Wash thoroughly after handling and use. Observe recommended operating speeds.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	% Weight	OSHA Rgulated	CAS #
Aluminum Oxide	Al <sub>2</sub> O <sub>3</sub>	0-95	N/A	1344-28-1
Silicon Carbide	SiC	0-95	N/A	409-21-2
Cured Rubber Compounds	N/A	1-20	N/A	N/A
Sulfur	S <sub>8</sub>	1-10	N/A	7704-34-9
Cured Phenolic Resin	N/A	0-10	N/A	N/A



Calcium Carbonate	CaCO <sub>3</sub>	0-5	N/A	1317-65-3
Calcium Oxide	CaO	0-5	N/A	1305-78-8
Potassium Aluminum Fluoride	KAIF <sub>4</sub>	0-5	N/A	14484-69-6
Patassium Fluoroborate	KBF <sub>4</sub>	0-5	N/A	14075-53-7
Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	0-5	N/A	1309-37-1
Kaolin	Al <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub>	0-5	Yes	1332-58-7
Magnesium Sterate	Mg(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	0-3	N/A	557-04-0

**SECTION 4 FIRST AID MEASURES**

**4.1 First Aid for exposure**

Remove to fresh air, wash eyes with water, wash skin with soap and water, obtain first aid or medical assistance as deemed necessary.

**4.2 Signs and Symptoms of Exposure**

Could cause coughing and shortness of breath due to dust. May affect breathing, irritate eyes, and cause skin irritatin. Pre-existing respiratory disease may be aggravated

**SECTION 5 FIRE FIGHTING MEASURES**

**5.1 Means Of Extinction:** Use any media that is appropriate for the surrounding fire.

**5.2 Unusual Fire or 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 explosive dusts or turnings when machined or ground.

**5.3 Special Fire Fighting Procedures:** None needed.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Notify authorities as required by local, state and federal regulations.

**SECTION 7 HANDLING AND STORAGE**

**7.1 Handling:** 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 Code for additional information. Consider potential exposure to components of the base materails or coating being ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

**7.2 Storage:** Store in accordance with ANSI B7.1 Safety Code. Protect abrasive wheels from damage.

**SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION**



### 8.1. Exposure limits

Chemical	OSHA PEL	ACFIH TLV
Aluminum Oxide	15 mg/m <sub>3</sub>	10 mg/m <sub>3</sub>
Silicon Carbide	15 mg/m <sub>3</sub>	10 mg/m <sub>3</sub>
Cured Phenolic Resin	Not established	Not established
Cured Rubber Compounds	Not established	Not established
Sulfur	15 mg/m <sub>3</sub>	10 mg/m <sub>3</sub>
Calcium Carbonate	15 mg/m <sub>3</sub>	Not established
Calcium Oxide	5 mg/m <sub>3</sub>	2 mg/m <sub>3</sub>
Potassium Aluminum Fluoride	2.5 mg/m <sub>3</sub>	2.5 mg/m <sub>3</sub>
Potassium Fluoroborate (as fluorides)	2.5 mg/m <sub>3</sub>	2.5 mg/m <sub>3</sub>
Iron Oxide	10 mg/m <sub>3</sub>	5 mg/m <sub>3</sub>
Kaolin	5 mg/m <sub>3</sub>	10 mg/m <sub>3</sub>
Magnesium Stearate	Not established	10 mg/m <sub>3</sub>

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

### 8.2 Personal protection requirements and referrals

**Respiratory:** Use NIOSH approved respirator if exposure limits are exceeded or where dust exposures are excessive.

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

**Protective Gloves:** Cloth or leather gloves recommended.

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

**Hearing Protection:** Elevated sound levels may result during operation. Use ear protection as necessary.

**Hygienic Practices:** Follow good general industrial safety practices during use.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** Not applicable

**Vapor Pressure:** (mm Hg) Not applicable

**Vapor Density:** (air = 1) Not applicable

**Solubility in Water:** Insoluble

**Lower And Upper Explosion Limits:** Not applicable

**Flash Point:** Non-combustible

**Specific Gravity:** Not applicable

**Melting Point:** Not applicable

**Evaporation Rate:** (Butyl Acetate=1) Not applicable

**Appearance:** Black, green or reddish colored rigid wheel

**Odor:** None

## SECTION 10 STABILITY AND REACTIVITY PROPERTIES

**Stability:** Stable

**Incompatibility:** 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.

**Hazardous Polymerization:** Will not occur.



**SECTION 11 TOXICOLOGICAL INFORMATION**

**11.1 Component information**

**Component information**

Chemical	Short term effects	Long term effects	Carcinogen
Aluminum Oxide	Oral rat LD50 > 5,000 mg/kg	No data available	Not carcinogenic
Calcium Carbonate	Oral rat LD50 = 6,450 mg/kg	No data available	Not carcinogenic
Potassium Aluminum Fluoride	No data available	No data available	3 as listed by IARC

**11.2 Route(s) of Entry and symptoms of exposure**

See section 4.2

**SECTION 12 ECOLOGICAL INFORMATION**

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 processed.

**SECTION 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.

**SECTION 14 TRANSPORT INFORMATION**

**DOT Hazardous Materials Description:** Not regulated  
**Proper Shipping Name:** Not regulated  
**UN Number:** None  
**Hazard Class/Packing Group:** None  
**Labels Required:** None

**SECTION 15 REGULATORY INFORMATION**

**SARA Section 311/312 Hazard Categories:** Not Applicable (manufactured articles)  
**SARA 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): 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 offer 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 product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

**SECTION 16 OTHER INFORMATION**

The above information is based on our current standard of knowledge and does not constitute any warranty of conditions of the product. The information does not form part of any contractual agreement. It remains the user's responsibility to adhere existing laws and regulations.