

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: METPREP LTD.
CURRIERS CLOSE
CHARTER AVENUE
COVENTRY CV4 8AW

TELEPHONE: PRODUCT INFORMATION: 024 7642 1222

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CHEMICAL NAME:

PRODUCT: ABRASIVE WHEEL, RESIN BONDED

PRODUCT NUMBERS: Various

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NATURE: Aluminium Oxide and/or Silicon Carbide Abrasive wheels

INGREDIENT (S):	CAS NUMBER:	%	OSHA LIMIT	ACGIH TLV	CARCINOGEN
Aluminium Oxide	1344-28-1	90	10 mg /m ³	10 mg /m ³	N
Silicon Carbide	409-21-2	90	10 mg /m ³	10 mg /m ³	N
Zirconium Oxide	1314-23-4	90	15 mg /m ³	10 mg /m ³	N

The abrasive wheel may be comprised of 1 or more of the above products. The chemicals listed below may be part of the bond system.

Fluorides	NA	10	2.5 mg /m ³	2.5 mg /m ³	N
Calcium Oxide	1305-78-8	3	5 mg /m ³	5 mg /m ³	N
Glass, Fibrous or dust	65997-17-3	10	5mg /m ³	10 mg /m ³	N

3. HAZARDS IDENTIFICATION

If handled and used for abrasive cutting purposes as indicated, the substance presents no critical hazards to man. EC Directive No 88/379.

4. FIRST AID MEASURES

GENERAL INFORMATION: In all cases of doubt, or when symptoms persist, seek medical attention.

INHALATION: In dry applications, abrasive products may generate nuisance dust. There may therefore be a requirement for local exhaust ventilation and/or respiratory protection. Exposure to this dust should be adequately controlled and personal exposure kept below 10 mg m⁻³ 8 hour TWA total inhalable dust, or 5 mg m⁻³ 8-hour TWA respirable dust. In addition, the airborne concentration of the material should be considered.

SKIN: Should irritation occur, seek medical attention.

EYE: Dust may cause irritation. Abrasive grit in the eyes may cause damage and eye protection is required. In case of grit in the eyes, seek medical/ophthalmic advice.

INGESTION: NA.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Sand, foam, dry powder or CO₂.

UNSUITABLE EXTINGUISHING MEDIA:

FIRE FIGHTING PROTECTIVE EQUIPMENT: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

FURTHER INFORMATION: Organic bonded abrasive products may burn but do not generally propagate flames. Constituents such as cured resin may fuel combustion, and in a fire toxic gases may be evolved, entailing use of self-contained breathing apparatus by fire fighters.

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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: NA
 ENVIRONMENTAL PRECAUTIONS: NA
 METHODS OF CLEANING UP: NA

7. HANDLING AND STORAGE

HANDLING: Take measures to ensure against mechanical damage. Excessively damp wheels may present an out of balance situation and this condition should be avoided.

STORAGE: Examination, handling and storage of abrasive wheels should be in accordance with "Safety in the Use of Abrasive Wheels", Health & Safety Series Booklet HS (G) 17 available from H.M.S.O. Store in a dry area 10 -30 ° C and less than 65% relative humidity.

INDUSTRIAL HYGIENE PRACTICES: Wash face and hands thoroughly with the soap and water after use and before eating, drinking, smoking or applying cosmetics.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory protection: Approved dust respirators may be required depending on airborne dust concentration.

Hand protection: No specific protection required under normal conditions

Eye protection: Wear suitable goggles

Skin protection: No specific protection required under normal conditions

Hazardous substances with occupational exposure limits:

CAS-No	Material	Content (% weight)	Long term exposure limit mg m ⁻³
N.A.	cured resin	1 - 35	10
1344-28-1	Aluminium Oxide	20 -95	10
409-21-1	Silicon Carbide	20 - 95	10

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Solid

COLOUR: Brown to Black

ODOUR: None as supplied, typical phenolic when in use.

PH NA at 20 ° C

BOILING POINT: NA ° C

MELTING POINT: NA ° C

THERMAL DECOMPOSITION: NA ° C

IGNITION TEMPERATURE: NA ° C

VAPOUR PRESSURE: NA at 20 ° C

DENSITY: 0.8 – 3.5 g/cm³

BULK DENSITY: NA kg/m³

WATER SOLUBILITY: Insoluble

MISCIBILITY WITH WATER: NA

VISCOSITY: NA at 25 ° C

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: No hazardous reactions known. Excessive heat and humidity.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids, strong bases & strong oxidising agents may modify the mechanical characteristics of the product and create safety hazards when used on machines.

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HAZARDOUS DECOMPOSITION PRODUCTS: If abrasive wheels are used in accordance with instructions no hazardous decomposition products are created.

11. TOXICOLOGICAL INFORMATION

NOT APPLICABLE WHEN HANDLED OR STORED

According to the experience gathered for many years, coated abrasives, when properly used have no adverse effect on health, refer to the preliminary not about dust and aerosols of grinding fluid.

12. ECOLOGICAL INFORMATION

Based upon current information, there are no special regulations on degradability testing to be observed.

13. DISPOSAL CONSIDERATIONS

PRODUCT: Dispose of in a secured, sanitary landfill and in accordance with local regulations. In the U.K., this abrasive product is not considered as notifiable waste.

14. TRANSPORTATION

LAND TRANSPORT:

ADR

REGULATION: Not dangerous goods – full transport

RID:

REGULATION: Not dangerous goods – full transport

AIR TRANSPORT –

IATA CLASS:

REGULATION Not dangerous goods – full transport

OCEAN TRANSPORT –

IMDG CLASS:

REGULATION Not dangerous goods – full transport

15. REGULATORY INFORMATION

EC REGULATIONS –

EINECS: all chemical listed

EEC Classification:

Risk Phrases:

Safety Phrases:

HAZARDOUS COMPONENTS WHICH MUST BE LISTED ON THE LABEL:

NATIONAL LEGISLATION:

NOTIFICATION STATUS: EINECS Not Required
TSCA

16. ADDITIONAL INFORMATION

This data sheet was prepared in accordance with Directive 91/155/EEC.

The above information has been gathered from reliable sources and is believed to be correct. However, the information is provided without any warranty, either expressed or implied. MetPrep Ltd shall not be held liable for any damage resulting from the handling of or contact with the above product.