



MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 10 10 40, 10 15 40, 10 20 40, 10 25 40, 10 30 40, 10 35 40

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

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

TELEPHONE: 024 7642 1222
FAX: 024 7642 1192

PRODUCT: Diamond Cut-off Wheels (Petrographic, Ceramics)

SECTION 2 SUBSTANCE HAZARDS IDENTIFICATION

PRECAUTIONARY STATEMENTS

AVOID INHALATION OF DUSTS AS WELL AS PROLONGED AND REPEATED CONTACT WITH SKIN. MOST DIAMOND TOOLS ARE USED ALONG WITH WATER TO KEEP BLADES COOL AND TO DECREASE AIRBORNE CONTAMINANTS.

FOR DRY SAWING AND GRINDING, MAINTAIN ADEQUATE VENTILATION OR USE LOCAL EXHAUST.

DESCRIPTION OF HAZARDS

DUST CREATED BY GRINDING AND/OR SAWING CAN CAUSE IRRITATION TO EYES, NOSE, THROAT AND SKIN. LONG TERM OVEREXPOSURE TO DUSTS CAN LEAD TO RESPIRATORY IMPAIRMENT.

GRINDING OR SAWING MAY PRODUCE AN ELEVATED NOISE WHICH CAN AFFECT HEARING.

PARTICLES OF VARIOUS SIZE EJECTED DURING GRINDING OR SAWING MAY POSE IMPACT HAZARDS TO EYES AND SKIN.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	CAS#
DIAMOND	7782-40-3
NICKEL	7440-02-0
COBALT	7440-48-4
IRON	7439-89-6
COPPER	7440-50-8
TIN	7440-31-5
TUNGSTEN CARBIDE	12070-12-1
MANGANESE	7439-96-5

SECTION 4 FIRST AID MEASURES

INHALATION

IF SYMPTOMS DEVELOP (COUGHING, WHEEZING, SHORTNESS OF BREATH, ETC), REMOVE FROM EXPOSURE AND OBTAIN MEDICAL ASSISTANCE, AS NEEDED.

SKIN CONTACT

IF IRRITATION OCCURS, WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE, AS NEEDED.

EYE CONTACT

IF IRRITATION OCCURS, FLUSH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, AS NEEDED.

INGESTION

OBTAIN MEDICAL ASSISTANCE.



SECTION 5 FIRE FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA: N/A
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: N/A
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: N/A

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: N/A
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: CLEAN-UP: N/A

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING
MAINTAIN GOOD HOUSEKEEPING PRACTICES TO PREVENT ACCUMULATION OF DUST.
CONDITIONS FOR SAFE STORAGE
STORE BLADES, BITS, WHEELS AND DISK IN A DRY LOCATION.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS

CHEMICAL NAME	OSHA PEL	ACGIH TLV (mg/m3)
DIAMOND	N/A	N/A
NICKEL	1.0 mg/m3	1.5 mg/m3
COBALT	0.1 mg/m3	0.02 mg/m3
IRON	N/A	N/A
COPPER	0.1 mg/m3	0.2 mg/m3
TIN	2.0 mg/m3	2.0 mg/m3
TUNGSTEN CARBIDE	5.0 mg/m3	5.0 mg/m3
MANGANESE	5.0 mg/m3	0.2 mg/m3

APPROPRIATE ENGINEERING CONTROLS

AVOID INHALATION OF DUSTS AS WELL AS PROLONGED AND REPEATED CONTACT WITH SKIN. DURING SAWING OR GRINDING, MAINTAIN ADEQUATE VENTILATION OR USE LOCAL EXHAUST FOR DUST CONTROL. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

WEAR NIOSH APPROVED RESPIRATOR IF AIRBOURNE DUST CONCENTRATIONS EXCEED PEL OR TLV LEVELS.

SKIN PROTECTION

NOT NORMALLY REQUIRED. PROTECTIVE CLOTHING AND GLOVES MAY BE WORN TO LIMIT CONTACT.

EYE PROTECTION

USE NIOSH APPROVED FACE SHIELD OR SAFETY GLASSES.

HEARING PROTECTION

WEAR APPROVED HEARING PROTECTOR WHERE NOISE LEVELS DURING SAWING AND GRINDING EXCEED OSHA PRESCRIBED LEVELS.

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: SOLID **ODOR:** ODORLESS **ODOR THRESHOLD:** N/A
PH: N/A **MELTING POINT:** 1166-2192F **BOILING POINT:** N/A
FLASH POINT: N/A **EVAPORATION RATE:** N/A **FLAMMABILITY:** N/A
UPPER/LOWER FLAMMABILITY OR ELPLSIVE LIMITS: N/A **VAPOR PRESSURE:** N/A
VAPOR DENSITY: N/A **SPECIFIC GRAVITY:** 7.8 - 12.4
SOLUBILITY IN WATER: INSOLUBLE
PARTITION COEFFICIENT: N/A **AUTO-IGNITION TEMP:** N/A **DECOMPOSITION TEMP:** N/A
VISCOSITY: N/A

SECTION 10**STABILITY AND REACTIVITY PROPERTIES**

REACTIVITY: NO DATA AVAILABLE
CHEMICAL STABILITY: STABLE UNDER NORMAL USE AND STORAGE CONDITIONS.
PASSIBILITY OF HAZARDOUS REACTIONS: NO DATA AVAILABLE
CONDITIONS TO AVOID: KEEP AWAY FROM HUMIDITY AND EXCESSIVE HEAT
INCOMPATIBLE MATERIALS: STRONG ACIDS AND OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

SECTION 11**TOXICOLOGICAL INFORMATION****COMPONENT INFORMATION**

CHEMICAL NAME	LD50 TOXICITY	CARCINOGEN*
DIAMOND	MOUSE – 10,000 mg/kg	N
NICKEL	NO DATA AVAILABLE	Y
COBALT	RAT – 6,171 mg/kg	N
IRON	RAT – 7,500 mg/kg	N
COPPER	MOUSE – 3.5 mg/kg	N
TIN	RAT - >2,000 mg/kg	N
TUNGSTEN CARBIDE	RAT – 2,000 mg/kg	N
MANGANESE	RAT – 9,000 mg/kg	N

*PER NATIONAL TOXICOLOGY PROGRAM 13TH REPORT ON CARCINOGENS, OCT 2, 2014.

ROUTES OF ENTRY

ROUTE OF ENTRY, INHALATION: YES

ROUTE OF ENTRY, SKIN: NO

ROUTE OF ENTRY, INGESTION: NO

SYMPTOMS OF EXPOSURE

ACUTE: IRRITATION, COUGHING, WHEEZING, SHORTNESS OF BREATH

DELAYED / CHRONIC: RESPIRATORY CONDITIONS

SECTION 12**ECOLOGICAL INFORMATION**

PRODUCTS HAVE NO ECOLOGICAL EFFECTS WHEN PROPERLY USED AND STORED. AN ENVIRONMENTAL HAZARD CANNOT BE EXCLUDED IN THE EVENT OF UNPROFESSIONAL HANDLING OR DIAPOSAL. NO DATA AVAILABLE.



SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

USE STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS.

SECTION 14 TRANSPORT INFORMATION

NO SPECIFIC REGULATIONS FOR TRANSPORTATION ARE REQUIRED. MAKE SURE TO PROTECT PRODUCTS FROM DAMAGE DURING TRANSPORTATION.

SECTION 15 REGULATORY INFORMATION

CALIFORNIA PROP. 65 COMPONENTS

WARNING! THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

COBALT CAS-NO. 7440-48-4, NICKEL CAS-NO. 7440-02-0, REVISION DATE 2007-09-28

SECTION 16 OTHER INFORMATION

Disclaimer:

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.