

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	1261 MG-KRETE LOW TEMP ACCELERATOR	D2B
PRODUCT USE	Low temp accelerator is a powder additive for MG-KRETE to speed up the working time in low temperature environments.	
MANUFACTURE'S NAME	IMCO TECHNOLOGIES INC. 6254 SKYWAY RD., PO BOX 915 SMITHVILLE, ON. L0R 2A0	TEL 1-888-818-4626 FAX 905-527-0606
SUPPLIER'S NAME	SEE MANUFACTURER	
EMERGENCY NUMBER	613-996-666 or *666 CANUTEC 1-800-535-5053 UNITED STATES POISON INFORMATION CENTRE	
MSDS REVISION DATE	September 2, 2014	

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	WEIGHT %	CAS NUMBER	TWA Mg/m3	LD50 ORAL RAT Mg/kg	LC50 INHAL RAT ppm
MAGNESIUM OXIDE	60 - 100	1309-48-4	10 (fume)	NA	NA

3. HAZARDS IDENTIFICATION

ROUTE OF ENTRY	Eye contact, Ingestion, Skin contact, inhalation.
CARCINOGENIC STATUS	Not considered carcinogenic by IARC, and OSHA.
TARGET ORGANS	Eye, Skin, Respiratory tract.
HEALTH EFFECTS – EYE	Dust may irritate the eyes.
HEALTH EFFECTS – SKIN	Dust may irritate skin.
HEALTH EFFECTS – INGESTION	Ingestion generally causes purging of the bowels. Swallowing large amount may lead to bowel obstruction.
HEALTH EFFECTS – INHALATION	Dust may irritate nasal passages. Dust can cause mechanical irritation of the respiratory tract. Inhalation of freshly generated magnesium oxide fume may result in metal fume fever.

4. FIRST AID MEASURES

FIRST AID – EYE	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if irritation persists.
FIRST AID – SKIN	Flush skin with soap and water. Remove and wash contaminated clothing before reuse.
FIRST AID – INGESTION	Treat symptomatically. If bowel obstruction occurs, immediately consult a physician.
FIRST AID – INHALATION	Remove to fresh air. Treat metal fever with bed rest and treat for fever and pain.

5. FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY	Non-flammable.
EXTINGUISHING MEDIA	Non-flammable. Carbon dioxide, dry chemical, foam, or water spray.
SPECIAL HAZARDS OF PRODUCT	None.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTING	Fire fighters should wear full protective clothing, including self-contained breathing equipment. Avoid breathing decomposition products. Keep personnel removed and upwind of fire.
FLASH POINT (PMCC) (°C/F)	None
UPPER FLAMMABLE LIMIT %VOL	NA
LOWER FLAMMABLE LIMIT %VOL	NA
AUTOIGNITION TEMP (°C/F)	NA
EXPLOSION DATA – SENSITIVITY TO IMPACT	No
EXPLOSION DATA – SENSITIVITY TO STATIC DISCHARGE	No

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES	Wear appropriate breathing apparatus (if applicable) and protective clothing. Ventilate. Eliminate all sources of ignition. Reclaim product for re-use. Sweep up or vacuum spilled material. Avoid dust accumulation. Scoop up and put into container.
PERSONAL PRECAUTIONS	Wear appropriate protective equipment.
ENVIRONMENTAL PRECAUTIONS	Prevent entry into sewers or streams, dike if needed. Consult local authorities.

7. HANDLING AND STORAGE

HANDLING	Keep containers closed when not in use. Avoid contact with eyes, skin and clothing. Avoid breathing dust or mist. Use adequate ventilation. Wash skin thoroughly with soap and water after handling. Handle in accordance with good industrial hygiene and safety practices. Minimize dust generation and exposure.
STORAGE	Keep containers tightly closed. Normal storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES	General and local exhaust ventilation as recommended by good manufacturing practices should be sufficient for normal operations. Local exhaust ventilation should be used to minimize dust.
RESPIRATORY PROTECTION	If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator.
HAND PROTECTION	Wear impervious gloves.
EYE PROTECTION	Safety glasses with side shields.
BODY PROTECTION	Wear overall or apron. Launder contaminated clothing prior to reuse
PROTECTION DURING APPLICATION	During application, adequate ventilation must be provided. Mix in a well-ventilated area. If ventilation is poor, wear respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid, powder
ODOUR & APPEARANCE	Odourless, white
ODOR THRESHOLD (ppm)	NA
SPECIFIC GRAVITY	3.5 – 3.6
VAPOR DENSITY (AIR = 1)	NA
VAPOR PRESSURE 20 C	0
EVAPORATION RATE	NA
BOILING POINT (°C)	3582
FREEZING POINT (°C)	NA
pH	10
COEFFICIENT OF WATER/OIL DISTRIBUTION	NA
SOLUBILITY IN WATER	Slightly soluble
VOC (g/l)	NA

10. STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions
CONDITIONS TO AVOID	A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling, creating a hazard due to splashing or splattering of hot material.
MATERIALS TO AVOID	Acid (strong), Chlorine trifluoride, Phosphorus pentachloride. Exposure to water may cause product to slowly hydrate, during which heat may be generated (exothermic reaction).
HAZARDOUS POLYMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	If heated to the point of volatilization (1700 deg C), magnesium oxide FUMES may be generated.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE	Dust may irritate the skin, eyes, nasal passages and respiratory tract. Inhalation of freshly generated magnesium oxide FUME may result in metal fume fever. Ingestion generally causes purging of the bowels.
EFFECTS OF CHRONIC EXPOSURE	No specific data is available.
EXPOSURE LIMITS	ACGIH – 10 mg/m ³ TLV-TWA, (MAGNESIUM OXIDE – FUME)
IRRITANCY	Mild irritation expected
SENSITIZATION	No
CARCINOGENICITY	Not listed by ACGIH and IARC.
REPRODUCTIVE TOXICITY	None known.
TERATOGENICITY	None known.
MUTAGENICITY	None known.
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	None known.

12. ECOLOGICAL INFORMATION

MOBILITY	No data available.
PERSISTENCE/DEGRADABILITY	No data available.
BIO-ACCUMULATION	No data available.
ECOTOXICITY	No data available.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations
CONTAINER DISPOSAL	Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORTATION INFORMATION

CANADA	TDG CLASSIFICATION
HAZARD LABEL NOT REQUIRED	Not Regulated.
EXPORT	
DOT CFR 172.101 DATA	Not Regulated by D.O.T.
UN PROPER SHIPPING NAME	NA
UN CLASS	NA
UN NUMBER	NA
UN PACKAGING GROUP	NA
FLASH POINT	NA
HAZARDOUS MATERIAL	NA
HAZARD LABEL	NA

15. REGULATORY INFORMATION

WHMIS CLASSIFICATION: CLASS D, DIV.2, SUBDIVISION B-Material causing other toxic effects.
CEPA STATUS (DSL) : All of the ingredients of this product are listed on the Domestic Substances List. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

16. OTHER INFORMATION

HAZARD RATING (HMIS)	HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 0-MINIMAL; 1-SLIGHT; 2-MODERATE; 3-HIGH; 4-EXTREME
KEY	NA: No applicable information found or available CAS#: Chemical Abstracts Service Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit NTP: National Toxicology Program IARC: International Agency for Research on Cancer R: Risk S: Safety LD50: Lethal Dose 50% LC50: Lethal Concentration 50%
PREPARED BY:	Imco Technologies Inc.

Provided data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, however, each user should review these recommendations.