

SAFETY DATA SHEET

SDS DATE: June 1, 2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cylindrical / Reversible Gage Pin &/or Ring Gages
SYNONYMS:
PRODUCT CODES:

MANUFACTURER: VERMONT PRECISION TOOLS, INC.
DIVISION: VERMONT GAGE DIVISION
ADDRESS: 10 Precision Lane
PO Box 182
Swanton, Vermont 05488

GENERAL INFORMATION: 1-800-421-0914
CHEMTREC PHONE: 1-800-424-9300
OTHER CALLS:
FAX PHONE:

CHEMICAL NAME: 52100 Steel
CHEMICAL FAMILY: Tool Steel
CHEMICAL FORMULA:

PRODUCT USE:
PREPARED BY: Safety Department

SECTION 1 NOTES:

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: We do not consider this product in the form it is sold to constitute a physical hazard or health hazard. Subsequent operations such as abrading, melting, welding, cutting or processing in any other fashion that causes a release of dust or fume may cause some of the ingredients to change to a form which could affect exposed workers.



LABEL ELEMENTS:

SIGNAL WORD: Warning

ROUTES OF ENTRY: Exposure to specialty steel alloys occurs primarily from inhalation of dust or fumes, however, constituents of these alloys may cause effects directly upon the skin or eyes. Certain constituents may also be harmful if swallowed.

POTENTIAL HEALTH EFFECTS

EYES: Eye irritation
SKIN: Mild dermatitis
INGESTION: While ingestion of large enough quantities to cause health effects is unlikely, consult a physician if it occurs.
INHALATION: Aggravation by exposure to pre-existing respiratory disorders if prolonged or repeated overexposure to fume and dust occur.

ACUTE HEALTH HAZARDS: Short term overexposure to the dust, fumes and/or oxides of certain components of steel products may cause irritation of the eyes, nose or throat; or, may result in metal fume fever characterized by a metallic or sweet taste, dryness and irritation of the throat, wheezing, discoloration of the tongue and flu like symptoms.

CHRONIC HEALTH HAZARDS: Excessive and prolonged exposure to the dust fumes and/or oxides of certain components of steel products may result in chronic interstitial pneumonitis, discoloration of the skin and hair, allergic bronchitis, neoplasms or loss of coordination and balance.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing chronic skin, eye, or respiratory disorders if prolonged or repeated overexposure to fume and dust occur

CARCINOGENICITY

OSHA: ACGIH: NTP: IARC:
OTHER:

SAFETY DATA SHEET

SDS DATE: June 1, 2015

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:		
<u>Material or Component</u>	<u>CAS NUM.</u>	<u>% WT</u>
Iron	7439-89-6	Balance
*Nickel	7440-02-0	0.01 - 4.0
*Chromium	7440-47-3	0.01 - 2.5
Silicon	7440-21-3	0.15 - 2.2
Manganese	7439-96-5	0.25 - 2.0
Carbon	7440-40-0	0.01 - 1.2
Molybdenum	7439-98-7	0.01 - 1.1
Copper	7440-50-8	0.01 - 1.0
Trace Elements	NA	< 1.0

SECTION 3 NOTES: *Regulated as a toxic chemical under section 313, SARA TITLE III and 40 CFR 372.

SECTION 4: FIRST AID MEASURES

EYES: Flush well with running water to remove particulate. Seek medical attention.

SKIN: Brush off excess dust. Wash areas well with soap and water.

INGESTION: Seek medical attention if large quantities of material have been ingested.

INHALATION: Remove to fresh air, if condition continues consult a physician.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: None
(% BY VOLUME) LOWER:

FLASH POINT: None

F:

C:

METHOD USED:

AUTOIGNITION TEMPERATURE:

F:

C:

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 5 NOTES:

SAFETY DATA SHEET

SDS DATE: June 1, 2015

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: N/A

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : If your process causes a release of dust or fume, use local and general exhaust ventilation to keep airborne concentrations of dust or fumes below the TLV.

RESPIRATORY PROTECTION: If your process causes a release of dust or fume in excess of the permissible exposure limit, NOISH approved respirators for protection against airborne dust or fumes should be worn; respirators should be used in accordance with 29CFR 1910.134.

EYE PROTECTION: If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn.

SKIN PROTECTION: Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

INGREDIENT:		
Material or Component	OSHA PEL (mg/m³)	ACGIH TLV (mg/m³)
Iron	10	5
*Nickel	1.0	1.0
*Chromium	0.5	0.5
Silicon	15	10
Manganese	5	1
Carbon	NA	NA
Molybdenum	5	5
Copper	0.1	0.1
Trace Elements	NA	NA

SECTION 8 NOTES:

SAFETY DATA SHEET

SDS DATE: June 1, 2015

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Various shapes

ODOR: Odorless material

PHYSICAL STATE: Solid

pH AS SUPPLIED:

pH (Other):

BOILING POINT:

F: 5000 deg F

C:

MELTING POINT:

F: 2500 deg F

C:

FREEZING POINT: N/A

F:

C:

VAPOR PRESSURE (mmHg): N/A

@

F:

C:

VAPOR DENSITY (AIR = 1): N/A

@

F:

C:

SPECIFIC GRAVITY (H2O = 1): Approx. 7.8-8.2

@

F: 60 deg F

C:

EVAPORATION RATE: N/A

BASIS (=1):

SOLUBILITY IN WATER: Insoluble

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE: N/A

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER: LBS/GAL

WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: N/A

VISCOSITY:

@

F:

C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY):

INCOMPATIBILITY (MATERIAL TO AVOID): None

SAFETY DATA SHEET

SDS DATE: June 1, 2015

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION):

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: In accordance with local, state and federal regulations.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SAFETY DATA SHEET

SDS DATE: June 1, 2015

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

NFPA HAZARD CLASSIFICATION

HEALTH: FLAMMABILITY: REACTIVITY:
OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: FLAMMABILITY: REACTIVITY:
PROTECTION:

PREPARATION INFORMATION:

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