Product Safety Information

Issuing Date 2015-04-20 **Revision Date** 2015-04-20 **Revision Number** 1

1. Identification of the substance/preparation and of the Company/undertaking

Product Identifier

Product Type KMT - High Speed Steel (HSS)
Product name **KM6515**
Product code KA1170-25

Other means of identification

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use Round Tools. Metalworking Tools. For use in industrial installations only.

Uses advised against Do not re-sharpen tools without using appropriate safety and extraction systems to avoid dust exposure. Return tools to WIDIA for reconditioning services. Do no re-sharpen tools without using appropriate safety and extraction systems to avoid dust exposure. Return tools to Kennametal for reconditioning services.

Details of the Supplier of the Safety Data Sheet

Emergency Telephone Number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

NRC (National Response Center) USA, Poison Centres +1 800 222 1222
Canada, IWK Regional Poison Center +1 902 470 8161 or 1 800 565 8161

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2. Hazards Identification

Classification

This product does not require a hazard communication label as it does not pose a hazard in the form delivered. Hazards can occur while using this product. Please read and follow the instructions of this SDS.

Label Elements

Emergency Overview

Appearance grey solid **Physical State** solid **Odor** none

Hazards not otherwise classified (HNOC)

OTHER INFORMATION

3. Composition/Information on Ingredients

Chemical name	Formula	CAS-No	weight-%	GHS Classification
Iron	Fe	7439-89-6	> 50	
Tungsten	W	7440-33-7	5 - 10	
Molybdenum	Mo	7439-98-7	5 - 10	
Cobalt	Co	7440-48-4	5 - 10	Acute Oral 4 (H302) Acute dust/mist 1 (H330) Eye damage 2 (H319) Resp. Sens. 1B (H334) Skin Sens. 1 (H317) Carc. 1B (H350i) Repr. tox 2 (H361f) Aquatic Acute 1 M=10(H400) Aquatic Chronic 1 M=1(H410)
Chromium	Cr	7440-47-3	5 - 10	
Vanadium	V	7440-62-2	3 - 5	
Carbon	C	7440-44-0	1 - 2.5	
Nickel	Ni	7440-02-0	0.1 - 1	STOT RE 1 (H372) S,7 Carc. 2 (H351) S,7 Skin Sens. 1 (H317) S,7 Aquatic Chronic 3 (H412)

* The exact percentage (concentration) of composition has been withheld as a trade secret.

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed
H330 - Fatal if inhaled
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 - May cause an allergic skin reaction
H350i - May cause cancer by inhalation
H351 - Suspected of causing cancer if inhaled
H361f - Suspected of damaging fertility
H372 - Causes damage to organs through prolonged or repeated exposure if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

4. First aid measures

FIRST AID MEASURES

General advice

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Eye Contact

Keep eye wide open while rinsing. If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin contact

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash off immediately with soap and plenty of water.

Inhalation

Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen or artificial respiration if needed. Keep victim warm and quiet. Get medical attention. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Ingestion

Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by a physician.

Self-protection of the first aider Self-protection of the first aider. Wear suitable gloves.

Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Protective equipment and precautions for firefighters Use personal protective equipment as required

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Environmental precautions Avoid release to the environment.

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Collect in closed and suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use personal protective equipment as required. Ensure adequate ventilation. Minimize dust generation and accumulation.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible products Acids, bases, strong oxidizers.

Specific use(s) For use in industrial installations only.

8. Exposure Controls/Personal Protection

Control parameters

Chemical name	USA - ACGIH TLV	USA - OSHA PEL	USA - NIOSH IDLH	Argentina	Brazil
Tungsten	10 mg/m³ STEL 5 mg/m³ TWA	-	-	TWA: 5 mg/m³ STEL: 10 mg/m³	
Molybdenum	10 mg/m³ TWA (inhalable fraction); 3 mg/m³ TWA (respirable fraction)	Not Listed	5000 mg/m³ IDLH	TWA: 10 mg/m³ TWA: 3 mg/m³	

Cobalt	0.02 mg/m³ TWA	0.1 mg/m³ TWA (dust and fume)	20 mg/m³ IDLH (dust and fume)	TWA: 0.02 mg/m³	
Chromium	0.5 mg/m³ TWA	1 mg/m³ TWA	250 mg/m³ IDLH	TWA: 0.5 mg/m³	
Nickel	1.5 mg/m³ TWA (inhalable fraction)	1 mg/m³ TWA	10 mg/m³ IDLH	TWA: 1.5 mg/m³	
Chemical name	**Canada - Alberta**	**Canada - British Columbia**	**Canada - Ontario**	**Canada - Quebec**	**Canada - Manitoba**
Tungsten	5 mg/m³ TWA 10 mg/m³ STEL	5 mg/m³ TWA 10 mg/m³ STEL	5 mg/m³ TWA 10 mg/m³ STEL		5 mg/m³ TWA 5 mg/m³ TWA (as W) 10 mg/m³ STEL
Molybdenum	10 mg/m³ TWA (total); 3 mg/m³ TWA (respirable)	3 mg/m³ TWA (respirable); 10 mg/m³ TWA (inhalable)	10 mg/m³ TWA (metal, inhalable); 3 mg/m³ TWA (metal, respirable)		10 mg/m³ TWA (inhalable fraction); 3 mg/m³ TWA (respirable fraction)
Cobalt	0.02 mg/m³ TWA	0.02 mg/m³ TWA	0.02 mg/m³ TWA	0.02 mg/m³ TWAEV	0.02 mg/m³ TWA 0.02 mg/m³ TWA (as Co)
Chromium	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWAEV	0.5 mg/m³ TWA
Nickel	1.5 mg/m³ TWA	0.05 mg/m³ TWA	1 mg/m³ TWA (inhalable)	1 mg/m³ TWAEV	1.5 mg/m³ TWA (inhalable fraction)
Chemical name	**Chile**	**Mexico OEL (TWA)**	**Peru**	**Uruguay**	**Venezuela**
Tungsten		-	5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	STEL: 10 mg/m³ TWA: 5 mg/m³
Molybdenum		-		10 mg/m³ TWA (inhalable fraction); 3 mg/m³ TWA (respirable fraction)	TWA: 10 mg/m³ TWA: 3 mg/m³
Cobalt	TWA: 0.016 mg/m³	0.1 mg/m³ TWA LMPE-PPT (dust and fume, as Co)	0.02 mg/m³ TWA	0.02 mg/m³ TWA	TWA: 0.02 mg/m³
Chromium	TWA: 0.4 mg/m³	0.5 mg/m³ TWA LMPE-PPT		0.5 mg/m³ TWA	TWA: 0.5 mg/m³
Vanadium	TWA: 0.04 mg/m³	-			
Carbon		2 mg/m³ TWA LMPE-PPT (dust)			
Nickel	TWA: 0.8 mg/m³	1 mg/m³ TWA LMPE-PPT	1.5 mg/m³ TWA	1.5 mg/m³ TWA (inhalable fraction)	TWA: 1.5 mg/m³

NIOSH IDLH: Immediately Dangerous to Life or Health

Chemical name	Derived No Effect Level (DNEL)	Predicted No Effect Concentration (PNEC)
Iron	3 mg/m³ local inhalation	No information available at product level
Tungsten	5.8 mg/m³ systemic inhalation	Tungsten 0.338 mg/l freshwater; 0.0338 mg/l marine water; 2.17 mg/kg soil; 11 mg/kg food
Molybdenum	11.17 mg/m³ longterm local inhalation	No information available at product level
Cobalt	0.04 mg/m³ long term local inhalation	2.36 µg Co/l (AF 3) marine water; 0.74 µg/l (AF 3) fresh water
Chromium	0.5 mg/m³ local inhalation	No information available at product level
Carbon	10 mg/m³ systemic inhalation	No information available at product level
Nickel	4 mg/m³ short term local inhalation; 0.05 mg/m³ long term local inhalation	0.0035-0.0218 mg/l freshwater; 0.0023 mg/l marine water

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles).

Skin Protection Apron. Wear suitable protective clothing. Wear suitable gloves.

Hand Protection Protective gloves.

Hygiene Measures Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Biological standards

Chemical name	USA ACGIH -BEI	Argentina - Occupational Exposure Limits - Biological Exposure Indices (BEIs)	Chile - Occupational Exposure Limits - Biological Exposure Indices (BEIs)
Cobalt 7440-48-4	15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background); 1 µg/L Medium: blood Time: end of shift at end of workweek Parameter: Cobalt (background, semi-quantitative)	15 µg/L urine end of shift on the last day of workweek Co (Background); 1 µg/L blood end of shift on the last day of workweek Co (Background, semi-quantitative)	
Chemical name	**Mexico - Occupational Exposure Limits - BEIs (IBE)**	**Venezuela - Biological Exposure Indices (BEIs)**	**...**
Cobalt 7440-48-4	15 µg/L Medium: urine Time: end of shift at end of work week Parameter: Cobalt (background); 1 µg/L Medium: blood Time: end of shift at end of work week Parameter: Cobalt (background, semi-quantitative)	15 µg/L urine end of shift at end of workweek Cobalt (F); 1 µg/L urine end of shift at end of workweek Cobalt (F,Sc)	

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State	solid	**Appearance**	grey solid
Odor	none	**Odor Threshold**	none
Melting point/freezing point		**Boiling temperature / boiling range**	
Flash Point		**Evaporation Rate**	
Flammability (solid, gas)		**Upper flammability limits**	
Lower Flammability Limit		**Water solubility**	practically insoluble
Autoignition temperature		**Kinematic viscosity**	
Dynamic viscosity		**Explosive properties**	not applicable
Oxidizing properties	not applicable		

OTHER INFORMATION

VOC Content (%) Not Applicable

10. Stability and Reactivity

Reactivity No data available

Chemical stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to avoid Extremes of temperature and direct sunlight.

incompatible materials

Hazardous decomposition products None known based on information supplied.

11. Toxicological Information

Information on likely routes of exposure

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system. Avoid breathing vapors or mists.

Eye Contact Particulates may cause irritation due to mechanical abrasion. May cause irritation.

Skin contact May cause eye/skin irritation.

Ingestion Ingestion is not a likely route of exposure. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Iron - 7439-89-6	= 984 mg/kg (Rat)		Inhalation LC50 (4 hrs)
Tungsten - 7440-33-7	LD50 >2000 mg/kg bw	LD50 >2000 mg/kg bw	LC50 >5.4 mg/L air
Molybdenum - 7439-98-7	LD50 >2000 mg/kg bw	Not Classified	LC50 >3.92 mg/L air
Cobalt - 7440-48-4	550 mg/kg bw	>2000 mg/kg bw	0.05 mg/L
Chromium - 7440-47-3	LD50 >5000 mg/kg bw	Data waiving - Study Scientifically Unjustified	LC50 >5.41 mg/L air (analytical)
Vanadium - 7440-62-2	< 2000 mg/kg bw		Inhalation LC50 (4 hrs)
Carbon - 7440-44-0	> 10000 mg/kg (Rat)		Inhalation LC50 (4 hrs)
Nickel - 7440-02-0	>9000 mg/kg bw	Data waiving - Other Justification	NOAEC >=10.2 mgL air

Information on toxicological effects

Chemical name	US ACGIH - Critical effects
Tungsten - 7440-33-7	lower respiratory tract irritation
Cobalt - 7440-48-4	asthma; myocardial effects; pulmonary function
Chromium - 7440-47-3	skin and upper respiratory tract irritation
Nickel - 7440-02-0	dermatitis; pneumoconiosis

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to respiratory system and skin.

Sensitization May cause sensitization of susceptible persons. May cause sensitization by inhalation and skin contact.

Carcinogenicity This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical name	ACGIH	IARC	NTP	OSHA
Cobalt - 7440-48-4	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	Group 2B - Possible Human Carcinogen	Not Listed	Not Listed
Chromium - 7440-47-3	A4 - Not Classifiable as a Human Carcinogen	Group 3 - Not Classified as a Human Carcinogen	Not Listed	Not Listed
Nickel - 7440-02-0	A5 - Not Suspected as a Human Carcinogen	Nickel Compounds: Group 1 - Known Human Carcinogen - Nickel, Metalic & Alloy: Group 2B - Possible Human Carcinogen	Reasonably anticipated to be a Human Carcinogen	Not Listed
Chemical name	**Chile**	**Argentina**	**Venezula**	**Peru**
Cobalt - 7440-48-4	A3 - Animal Carcinogen	A3 - Confirmed animal carcinogen with unknown relevance to humans	Present	
Chromium - 7440-47-3	A4 - Not Classifiable as a Human Carcinogen	A4 - Not classifiable as a human carcinogen	A4 - Not Classified as a Carcinogen in Humans	
Nickel - 7440-02-0	A1 - Confirmed Human Carcinogen	A5 - Not Suspected as a human carcinogen	A5 - Not an Alleged Carcinogen in Humans	A1 - Confirmed Human Carcinogen

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

Chronic toxicity Prolonged or repeated skin contact with powder or dust may cause severe irritation or dermatitis. Repeated contact with powder or dust may cause an allergic skin reaction consisting of itching, redness, swelling and rash or urticaria (hives) in sensitized individuals. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Repeated contact may cause allergic reactions in very susceptible persons.

Target organ effects respiratory system, Skin.

Numerical measures of toxicity - Product Information

mg/kg

12. Ecological Information

12.1. Ecotoxicity

Chemical name	Algae toxicity	Acute Fish toxicity	Toxicity to Microorganisms	Daphnia magna
Iron 7439-89-6	NOEC - 1.4 mg/L	Data Waiving - Study Scientifically Unjustified	Not available	Data Waiving - Study Scientifically Unjustified
Tungsten 7440-33-7	Read Across - EC50 >17.7 mg/L	Read Across - NOEC > 9.8 mg/L	Not available	EC50 50 mg/L
Molybdenum 7439-98-7	EC10 - 150 mgL, NOEL - 169.9 ,h/L	LC50 - 609 mg/L	Not available	EC50 - 2847.5 mg/L
Cobalt 7440-48-4	EC50 - 270ug/L	NOEC - 100 mg/L - Cobalt Powder	Not available	LOEC - 5.6 mg/L, LC50 > 100 mg/L
Chromium 7440-47-3	Data Waiving - Study Scientifically Unjustified	Data Waiving - Study Scientifically Unjustified	Not available	Data Waiving - Study Scientifically Unjustified
Nickel 7440-02-0	EC10 - 316.5 ug/L	LC50 - 15.3 mg/L	Not available	LC50 >200ug/L (@6-6.5 pH), 13ug/L (@8-8.5pH)

12.2 Persistence and degradability Product/Substance is inorganic. not applicable.

Bioaccumulation/Accumulation No information available.

12.6 Other adverse effects None known

13. Disposal Considerations

Waste treatment methods It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Waste from residues/unused products Reuse or recycle.

California Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Molybdenum - 7439-98-7	Ignitable
Cobalt - 7440-48-4	Toxic Ignitable
Chromium - 7440-47-3	Toxic Corrosive Ignitable

Nickel - 7440-02-0	Toxic Ignitable

14. Transport Information

DOT Not regulated

Chemical name	U.S. - DOT Reportable Quantities	DOT Marine Pollutant	DOT Severe Marine pollutant
Chromium 7440-47-3	5000 lbs RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 µm (0.004 inches).); 2270 kg RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 µm (0.004 inches).)		
Nickel 7440-02-0	100 lbs RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 µm (0.004 inches).); 45.4 kg RQ (The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 µm (0.004 inches).)		

TDG Not regulated

MEX Not regulated

ICAO / IATA-DGR Not regulated

IMO / IMDG Not regulated

15. Regulatory Information

Chemical name	Bolivia - hazardous substances regulated under Bolivia's Environmental Regulations for the Industrial Manufacturing Sector
Cobalt - 7440-48-4	Present
Nickel - 7440-02-0	Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	weight-%	SARA 313 - Threshold Values %
Cobalt - 7440-48-4	7440-48-4	5 - 10	Present
Chromium - 7440-47-3	7440-47-3	5 - 10	Present

SARA 311/312 Hazard Categories

Acute health hazard	yes
Chronic Health Hazard	yes
Fire Hazard	no
Sudden release of pressure hazard	no
Reactive Hazard	no

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chromium - 7440-47-3	Not Applicable	Present	Present	Not Applicable

Nickel - 7440-02-0	Not Applicable	Present	Present	Not Applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Chromium - 7440-47-3	5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)		5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Nickel - 7440-02-0	100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)		100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

U.S. State Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals:.

Chemical name	California - Proposition 65 - Carcinogens List	California - Proposition 65 - Developmental Toxicity	California - Proposition 65 - Reproductive Toxicity	California - 22 CCR - Toxic and Extremely Hazardous Carcinogenic Wastes
Cobalt - 7440-48-4	carcinogen, initial date 7/1/92 (powder)			
Nickel - 7440-02-0	carcinogen, initial date 10/1/89 (metallic)			

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Tungsten - 7440-33-7	sn 1959	Present	Present
Molybdenum - 7439-98-7	sn 1309	Present	Present
Cobalt - 7440-48-4	sn 0520	Present	Environmental hazard (fume) Present
Chromium - 7440-47-3	sn 0432	Carcinogen; Extraordinarily hazardous	Environmental hazard; Special hazardous substance Present
Vanadium - 7440-62-2	sn 3762	Present (dust and fume)	Environmental hazard (dust and fume) Present (dust or fume)
Nickel - 7440-02-0	sn 1341 (dust and fume)	Carcinogen; Extraordinarily hazardous	Environmental hazard; Special hazardous substance Present

U.S. EPA Label information

CANADA

WHMIS Statement In the form of a pressed and sintered item, this is a manufactured article and is not a "controlled product" under WHMIS.

Chemical name	WHMIS Classifications of Components
Iron - 7439-89-6	Uncontrolled product according to WHMIS classification criteria

Tungsten - 7440-33-7	Uncontrolled product according to WHMIS classification criteria
Molybdenum - 7439-98-7	Uncontrolled product according to WHMIS classification criteria
Cobalt - 7440-48-4	D2A, D2B
Chromium - 7440-47-3	Uncontrolled product according to WHMIS classification criteria
Carbon - 7440-44-0	Uncontrolled product according to WHMIS classification criteria
Nickel - 7440-02-0	D2A, D2B; B6, D2A (Raney)

16. Other Information

NFPA	**Health hazard** 2	**Flammability** 0	**Instability** 0	**Physical and Chemical Hazards** -
HMIS	**Health hazard** 2	**Flammability** 0	**Physical hazards** 0	**Personal precautions** X

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Revision Note No information available

Disclaimer

Kennametal urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDS's obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

End of Safety Data Sheet