

Print date 2019-10-08 Revision date 2016-04-01 Revision number 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Type Hard metal articles, inserts, drills, mills

Product Name K6 article
Product Code KA1139-11

Type This article doesn't contain hazardous substances or mixtures intended to be released

under normal or reasonably foreseeable conditions of use, Not applicable, article

Other means of identification

Synonyms Hard Metal, Cemented WC, Tungsten Carbide

Recommended use of the chemical and restrictions on use

Recommended use Service life, hardmetal articles, Industrial use, Professional use, Mining Tools, Construction

Tools, Round Tools, Metalworking Tools, Inserts, For use in industrial installations only

Uses advised against Do no re-sharpen tools without using appropriate safety and extraction systems to avoid

dust exposure. Return tools to Kennametal for reconditioning services. Consumer use.

Details of the supplier of the safety data sheet

Supplier Identification USA: Kennametal Inc. 1662 MacMillan Park Drive Fort Mill, SC 29707

ftmill.service@kennametal.com

Canada: Kennametal Inc. 471 Dundas St. East Belleville, ON K8N 1G2, CA

service@kennametal.com Phone 800.835.3668

Prepared By Kennametal Inc. 1600 Technology Way Latrobe, PA 15650, USA

E-mail k-corp-product.safety@kennametal.com

Company Emergency Phone Kennametal Security, Latrobe, US, PA +1-724-539-5610 (english)

Number

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

2. HAZARDS IDENTIFICATION

Classification

As a sintered tool, exposure to high volumes of powder/dust is not anticipated under normal conditions and use. If tool chips, breaks, fragments or is reground, exposure to powder/dust may result in potential health effects.

Label elements

	EMERGENCY OVERVIEW					
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Precautionary Statements - Prevention

Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Precautionary Statements - Response

IF exposed: Call a POISON CENTER or doctor/physician **skin** If skin irritation or rash occurs: Get medical advice/attention. **INHALATION** If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

appearance grey Solid Physical State @20°C Solid Odor None

Hazards Not Otherwise Classified (HNOC)

Warning Fragmentation hazard. Cutting tools and holders may fragment in use. Always wear safety

equipment and keep machine guards in places. Do no re-sharpen tools without using appropriate safety and extraction systems to avoid dust exposure. Return tools to Kennametal for reconditioning services. Use personal protective equipment as required

Other hazards Breathing hazard. Wet or dry grinding of cutting tools may produce hazardous dust or mist.

Use ventilation control and respiratory protection.

3. Composition/information on Ingredients

Synonyms

Hard Metal, Cemented WC, Tungsten Carbide.

Chemical Name	Formula	CAS-No	Weight-%	GHS Classification
Tungsten carbide	WC	12070-12-1	> 50	Not classified
Cobalt	Со	7440-48-4	5 - 10	Acute Oral 4 (H302) Skin Sens. 1 (H317) Eye damage 2 (H319) Acute dust/mist 1 (H330) Resp. Sens. 1B (H334) Carc. 1B (H350) Inhalation Repr. tox 2 (H361)Fertility Aquatic Acute 1 M=10(H400) Aquatic Chronic 1 M=1(H410)
Tantalum Carbide	TaC	12070-06-3	1 - 2.5	Not classified

^{*} 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

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H350i - May cause cancer by inhalation H361f - Suspected of damaging fertility

H400 - Very toxic to aquatic life

H410 - Very toxic 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. Avoid direct contact

with skin. Use barrier to give mouth-to-mouth resuscitation. Get medical attention.

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

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

Component information

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Environmental Precautions

Methods and material for containment and cleaning up Use personal protective equipment as required.

Avoid release to the environment.

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.

Minimize dust generation and accumulation. Use personal protective equipment as required. Ensure adequate ventilation. Breathing hazard. Wet or dry grinding of cutting tools may produce hazardous dust or mist. Use ventilation control and respiratory

protection.

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 None known based on information supplied.

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 carbide	- TOOM - AGOIN TEV	- OOA - OOHA I EE	- OOA - MICOIT IDEIT	TWA: 5 mg/m ³	- Diazii
Tungsten carbide				STEL: 10 mg/m ³	
Carbide, containing tungsten	0.005 mg/m ³ TWA	_	-		_
carbide and cobalt	(thoracic particulate				
	matter, as Co)				
Cobalt	0.02 mg/m³ TWA	0.1 mg/m ³ TWA (dust	20 mg/m ³ IDLH (dust	TWA: 0.02 mg/m ³	=
	0.02 mg/m ³ TWA	and fume)	and fume)	3	
	(inhalable particulate	,	,		
	matter); skin; dermal				
	and respiratory				
	sensitizer; A3 -				
	confirmed animal				
	carcinogen with				
	unknown relevance to				
	humans; BEI; TLV				
	basis: pulmonary				
	function				
Chemical Name	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec	Canada - Manitoba
Tungsten carbide	-	-	-	-	3 mg/m ³ TWA (in the
					absence of Cobalt,
					respirable particulate
					matter, as W)
Carbide, containing tungsten	=	=	=	=	0.005 mg/m ³ TWA
carbide and cobalt					(thoracic particulate
					matter, as Co) 3
					mg/m³ TWA (in the
					absence of Cobalt,
					respirable particulate
					matter, as W)
Cobalt	0.02 mg/m ³ 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)
Chemical Name	Chile	Colombia - OEL	Mexico OEL (TWA)	Nicaragua	Peru
Tungsten carbide	-	3 mg/m³ TWA (in the	-	3 mg/m³ TWA (in the	-
Tungsten carbide		absence of cobalt,		absence of cobalt,	
		respirable particulate		respirable particulate	
		matter, as W)		matter, as as W)	
Carbide, containing tungsten	-	0.005 mg/m ³ TWA	-	0.005 mg/m ³ TWA	-
carbide and cobalt		(thoracic particulate		(thoracic particulate	
		matter, as Co) 3		matter, as Co) 3	
		mg/m³ TWA (in the		mg/m³ TWA (in the	
		absence of cobalt,		absence of cobalt,	
		respirable particulate		respirable particulate	
		matter, as W)		matter, as as W)	
Cobalt	TWA: 0.018 mg/m ³	0.02 mg/m ³ TWA 0.02	0.1 mg/m ³ TWA	0.02 mg/m ³ TWA 0.02	0.02 mg/m ³ TWA
		mg/m³ TWA (as Co)	LMPE-PPT (dust and	mg/m³ TWA (as Co)	
			fume, as Co)		
Chemical Name	Uruguay	Venezuela			
Tungsten carbide	-	STEL: 10 mg/m³ TWA: 5 mg/m³	-	-	-
Carbide, containing tungsten	0.005 mg/m ³ TWA	-	-	-	-
carbide and cobalt	(thoracic particulate				
	matter, as Co)				
Cobalt	0.02 mg/m ³ TWA	TWA: 0.02 mg/m ³	-	·	-

NIOSH IDLH: Immediately Dangerous to Life or Health



Chemical Name	Derived No Effect Level (DNEL)	Predicted No Effect Concentration (PNEC)
Tungsten carbide	6.2 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
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

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 Wear impervious gloves and/or clothing if needed to prevent contact with the material.

Gloves should be replaced regularly and if there is any sign of damage to the glove

material.

Hand protection Protective gloves.

Respiratory Protection If exposure limits are likely to be exceeded or if irritation or other symptoms are

experienced, NIOSH/MSHA or EN 136 approved respiratory protection should be worn.

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

Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and

clothing. Wash hands before breaks and at the end of workday.

Biological standards

Chemical Name	USA ACGIH -BEI	Argentina - Occupational Exposure Limits - Biological Exposure Indices (BEIs)	Chile - Occupational Exposure Limits - Biological Exposure Indices (BEIs)
Carbide, containing tungsten carbide and cobalt	Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (nonquantitative, nonspecific)	-	-
Cobalt	15 μg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (nonspecific)	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	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

9.1 Information on basic physical and chemical properties

Physical State @20°CSolidappearancegrey, SolidOdorNoneodor thresholdNone °C / °FBoiling temperature / boiling No Data Available °C / °FFlash PointNot applicable

range

vapor pressureNot applicablevapor densityNot applicableWater SolubilityPractically insolubleAutoignition TemperatureNo Data Available



Decomposition temperature UNKNOWN

Explosive Properties Not applicable

Hardmetal WC-Co (50µm); Lower explosion limit 750 g/cm³, max explosion pressure 4.3 bar, Kst value 16 bar*m/s St1, ignition temperature 500°C, minimum ignition energy < 10 Dynamic Viscosity Oxidizing Properties Not applicable Not applicable

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9.2. Other information

VOC content (%) Not applicable

Component information

Chemical Name	Mol. Weight	Water Solub.	Vap. Press.	Vap. Dens.	pH Val.	Autoign. Temp.	Evap. Rate	Boil. Temp.
Cobalt	58.93 g/mol	-	0.00007 hPa at 1050 °C	-	-	-	-	2870 °C
Chemical Name	Density VALUE	Melt. Temp.	flash point	Water Sol.	Bulk Dens.	Odor	State	Color
Tungsten carbide	15.63 g/cm3 at 18 °C	-	-	ı	<9.2 kg/m ³ (ASTM B329)	-	-	ı
Cobalt	8.85 - 8.9 g/cm3 at 20 °C	<1495 °C	-	insoluble	-	-	-	-

10. STABILITY AND REACTIVITY

Reactivity Stable under normal conditions

<u>Chemical Stability</u> Stable under normal conditions. <u>Possibility of hazardous reactions</u> None under normal processing.

Conditions to Avoid Incompatible Materials

<u>Hazardous Decomposition Products</u> None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

INHALATION Breathing hazard. Wet or dry grinding of cutting tools may produce hazardous dust or mist.

Use ventilation control and respiratory protection.

Eye contact Mild eye irritation. Avoid contact with eyes.

Skin Contact Avoid contact with skin.

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
Tungsten carbide	> 2000 mg/kg bw (OECD 401)	> 2000 mg/kg bw (OECD 402)	> 5.3 mg/L (4h) (OECD 403)
Carbide, containing tungsten carbide and cobalt	-	-	Lowest reported LC50(4h) for waxed 10% Co 0.4 mg/l Lowest reported LC50(4h) for non-lubricated 10% Co 0.24 mg/l
Cobalt	550 mg/kg bw	>2000 mg/kg bw	0.05 mg/L

Information on Toxicological Effects



Chemical Name	US ACGIH - Critical effects
Carbide, containing tungsten carbide and	pneumonitis
cobalt	respiratory sensitizer
Cobalt	asthma; myocardial effects; pulmonary function

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

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: (National Toxicity Program)	OSHA
Carbide, containing tungsten	A2 - Suspected Human	Group 2A - Probably	Reasonably Anticipated To	Present
carbide and cobalt	Carcinogen	carcinogenic to humans	Be A Human Carcinogen (hard metals; powder)	
Cobalt	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	Group 2B - Possible Human Carcinogen	Printed Long-Term and Short-Term Study Reports: Long-Term Studies 16 Male Rat - Clear Evidence; Female Rat - Clear Evidence; Male Mice - Clear Evidence; Female Mice - Clear Evidence (TR-581) Reasonably Anticipated To Be A Human Carcinogen	Not Listed
Chemical Name	Chile	Argentina	Venezula	Peru
Cobalt	A3 - Animal Carcinogen	A3 - Confirmed animal carcinogen with unknown relevance to humans	Present	-
Chemical Name	Canada Alberta	Canada British Coloumbia	Canada Manitoba	Canada Quebec
Carbide, containing tungsten carbide and cobalt	-	ACGIH Category A2 - Suspected Human Carcinogen	A2 Suspected Human Carcinogen	-
Cobalt	-	IARC Category 2B - Possible Human Carcinogen	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans	C3 carcinogen - effect detected in animals

Chronic Toxicity

Repeated or prolonged skin contact with the unexposed coating may cause skin irritation and/or dermatitis and sensitization of susceptible persons. May produce an allergic reaction. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting. The mixture may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect. Listed as probable human carcinogen by IARC (Group 2A). 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. Contains a known or suspected reproductive toxin.

Target Organ Effects Respiratory system, skin.

Numerical Measures of Toxicity no data available

mg/kg

12. ECOLOGICAL INFORMATION

 12.1. Ecotoxicity
 May cause long lasting harmful effects to aquatic life.

 Chemical Name
 Algae Toxicity
 Acute Fish Toxicity
 Toxicity to
 Toxicity to daphnia and



			microorganisms	other aquatic invertebrates
Tungsten carbide	Desmodesmus subspicatus (algae) 72-h EC50 > 1 mg/L (OECD 201)	96-h Lc50 > 1000 mg/L (OECD 203) Zebrafish	<u>-</u>	48-h EC50 > 1000 mg/L (OECD 202)
Cobalt	LC50-144 ug/L (fresh water); LC50-24.1 µg/l (sea water); NOEC-4.9 µg/l (fresh water); NOEC-1.23 µg/l (sea water)	LC50-1.5 mg/l (fresh water); NOEC-351.4 mg/L	Not available	LC50-0.61 mg/l (fresh water); LC50-2.32 mg/l (sea water); NOEC-5.47 µg/L (fresh water); NOEC-206 µg/L (sea water)
Tantalum Carbide	-	LC50 96h > 100 mg/l	-	-

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

12.3 Bioaccumulative potential No information available.

12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or

12.6 Other adverse effects None known

13. DISPOSAL CONSIDERATIONS

It must undergo special treatment, e.g. at suitable disposal site, to comply with local **Waste Treatment Methods**

> 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

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Cohalt	Present (total)	_	_	_

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

a hazardous waste.

Reuse or recycle.

Chemical Name	California Hazardous Waste Status
Carbide, containing tungsten carbide and cobalt	Toxic
Cobalt	Toxic
	Ignitable

14. TRANSPORT INFORMATION

DOT NOT REGULATED

TDG NOT REGULATED

MEX NOT REGULATED

IMO / IMDG NOT REGULATED

ICAO / IATA-DGR NOT REGULATED

1 F		$\Lambda \pm \Omega D M$		$M\Delta TION$
רו	$\mathbf{R} \mathbf{F} (\mathbf{J} \mathbf{H})$	$\Delta I \cup R Y$	IIIIIE()RI	$A \Delta + C + C$

Chemical Name	TSCA
-	·



E	D ((1071)/F)	
Tungsten carbide	Present (ACTIVE)	
Cobalt	Present (ACTIVE)	
	Effective 06/01/1987, Sunset 06/01/1997	
	Added 2012	
Tantalum Carbide	Present	
Chemical Name	RCRA	
Cobalt	Present (total)	
Chemical Name	Bolivia - hazardous substances regulated under Bolivia's Environmental Regulations	
	for the Industrial Manufacturing Sector	
Cobalt	Toxic ([13])	
Chemical Name	Bolivia - hazardous substances regulated under Bolivia's Environmental Regulations	
	for the Industrial Manufacturing Sector	
Cobalt	Toxic ([13])	
Chemical Name	Chile - Chemical substances identified as dangerous to health by the Government of	
	Chile	
Cobalt	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

Chemical Name	CAS-No	Weight-%	SARA 313 - Threshold Values %
Tungsten carbide	12070-12-1	> 50	-
Cobalt	7440-48-4	5 - 10	Present
Tantalum Carbide	12070-06-3	1 - 2.5	-

SARA 311/312 Hazard Categories

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Clean Water Act This product does not contain any substances regulated as pollutants pursuant to the Clean

Water Act (40 CFR 122.21 and 40 CFR 122.42)

This material, as supplied, does not contain any substances regulated as hazardous CERCLA

substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional,

or state level pertaining to releases of this material

U.S. STATE REGULATIONS

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

Chemical Name	California - Proposition 65 - Carcinogens List	California - Proposition 65 - Developmental Toxicity	•	California - 22 CCR - Toxic and Extremely Hazardous Carcinogenic Wastes
Cobalt	carcinogen, 7/1/1992 (powder)	-	-	-

California Prop. 65

Listed. Warning. This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm. Additional information available from:. www.P65Warnings.ca.gov.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania



Tungsten carbide	sn 1960	-	-
Cobalt	sn 0520	Present,	Environmental hazard; Present
			(fume)
			Present

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	
Cobalt	D2A, D2B	

16. OTHER INFORMATION

Global Automotive Declarable Substance List Classifications

Chemical Name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thresholds
Cobalt	Declarable Substance (FI)	0.1 %

NFPA Health Hazard 2 flammability 0 Instability 0 Physical and chemical

hazards -

Health Hazard 2 flammability 0 Physical Hazards 0

Prepared By Kennametal Inc. 1600 Technology Way Latrobe, PA 15650, USA

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Revision note Initial Release

Disclaimer

K6 article - KA1139-11

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