

Print date 2018-11-22 Revision date 2018-11-22 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 WM15CT article

Product Code WA1185-4

Type 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

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

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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				
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) Acute dust/mist 1 (H330) Eye damage 2 (H319) Resp. Sens. 1B (H334) Skin Sens. 1 (H317) 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	3 - 5	Not classified
Titanium Carbide	TiC	12070-08-5	1 - 2.5	Not classified
Titanium Nitride	TiN	25583-20-4	1 - 2.5	Not classified
Niobium Carbide	NbC/Nb2C	12069-94-2	0.1 - 1	Not classified
Chromium Carbide	Cr ₃ C ₂	12012-35-0	0.1 - 1	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 ContactConsult 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

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

Use ventilation control and respiratory protection. 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.

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	3 mg/m³ TWA (respirable particulate matter, as W); TLV	-	-	TWA: 5 mg/m³ STEL: 10 mg/m³	-
	basis: lung damage				
Carbide, containing tungsten carbide and cobalt	0.005 mg/m³ TWA (thoracic particulate matter, as Co) 3 mg/m³ TWA (respirable particulate matter, as W); TLV	-	-	-	-
	basis: lung damage	0.4 / 2.714/4 / 1 /	00 / 015111/1	TIA/A 0.00 / 0	
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/m ³	-
Chemical Name	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec	Canada - Manitoba
Tungsten carbide	-	-	-		5 mg/m³ TWA (as W) 0.005 mg/m³ TWA (thoracic particulate matter, as Co)
Carbide, containing tungsten carbide and cobalt	-	-	-	-	0.005 mg/m³ TWA (thoracic particulate matter, as Co)
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) 0.005 mg/m³ TWA (thoracic particulate matter, as Co)
Chemical Name	Chile	Colombia - OEL	Mexico OEL (TWA)	Nicaragua	Peru
Tungsten carbide	-	5 mg/m³ TWA (as W) 0.005 mg/m³ TWA (thoracic fraction, as Co) 10 mg/m³ STEL (as W)	-	5 mg/m³ TWA (as W) 0.005 mg/m³ TWA (thoracic particulate matter, as Co)	-
Carbide, containing tungsten carbide and cobalt	-	0.005 mg/m³ TWA (thoracic fraction, as Co)	-	0.005 mg/m³ TWA (thoracic particulate matter, as Co)	-
Cobalt	TWA: 0.016 mg/m ³	0.02 mg/m³ TWA 0.02 mg/m³ TWA (as Co) 0.005 mg/m³ TWA (thoracic fraction, as Co)	0.1 mg/m³ TWA LMPE-PPT (dust and fume, as Co)	0.02 mg/m³ TWA 0.02 mg/m³ TWA (as Co) 0.005 mg/m³ TWA (thoracic particulate matter, as Co)	0.02 mg/m³ TWA
Chemical Name	Uruguay	Venezuela			
Tungsten carbide	-	STEL: 10 mg/m ³ TWA: 5 mg/m ³	-	-	-
Carbide, containing tungsten carbide and cobalt	(inhalable particulate matter)	-	-	-	-
Cobalt	0.02 mg/m ³ TWA	TWA: 0.02 mg/m ³	-	-	-
Chromium Carbide	-	TWA: 0.5 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 Long sleeved clothing.

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

Boiling temperature / boiling No Data Available Flash Point Not applicable

range

Water Solubility Practically insoluble 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 < 10 000 mJ

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
Titanium Nitride	61.87 g/mol	-	-	-	-	-	-	-
Chemical Name	Density VALUE	Melt. Temp.	flash point	Water Sol.	Bulk Dens.	Odor	State	Color
Tungsten carbide	15.63 g/cm3 at 18 °C	-	1	ı	<9.2 kg/m ³ (ASTM B329)	-	-	-
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>

Possibility of hazardous reactions

Stable under normal conditions.

None under normal processing.

Conditions to Avoid Incompatible Materials

Hazardous Decomposition Products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

INHALATION Long-term exposure to WC-Co is reported to be associated with occupational asthma and a

fibrotic lung condition referred to as hardmetal disease. Breathing hazard. Wet or dry grinding of cutting tools may produce hazardous dust or mist. Use ventilation control and

respiratory protection.

Skin Contact Avoid contact with skin.

INGESTION Ingestion is not a likely route of exposure.

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
Tungsten carbide	A2 - Suspected Human Carcinogen	-	-	-
Carbide, containing tungsten carbide and cobalt	A2 - Suspected Human Carcinogen	Group 2A - Probably carcinogenic to humans	Reasonably Anticipated To Be A Human Carcinogen (hard metals; powder) Present (see RoC monograph for specific cobalt compounds, listed under Cobalt and certain cobalt compounds)	Present
Cobalt	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans A2 - Suspected Human Carcinogen	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; Hale Mice - Clear Evidence; Female Mice - Clear Evidence; Female Mice - Clear Evidence (TR-581) Present (includes nanoparticles, listed under Cobalt and certain cobalt compounds) Present (see RoC monograph for specific cobalt compounds, listed under Cobalt and certain cobalt compounds)	Not Listed
Chemical Name	Chile	Argentina	Venezula	Peru
Cobalt	A3 - Animal Carcinogen	A3 - Confirmed animal carcinogen with unknown relevance to humans	Present	-
Chromium Carbide	-	-	Present	-
Chemical Name	Canada Alberta	Canada British Coloumbia		Canada Quebec
Tungsten carbide	-	-	A2 Suspected Human Carcinogen	-
Carbide, containing tungsten carbide and cobalt	-	-	A2 Suspected Human Carcinogen	-
Cobalt	Demosted or	IARC Category 2B - Possible Human Carcinogen	A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans A2 Suspected Human Carcinogen	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

12. ECOLOGICAL INFORMATION

12.1. EcotoxicityMay cause long lasting harmful effects to aquatic life.

<u></u>					
Chemical Name	Algae Toxicity	Acute Fish Toxicity	Toxicity to microorganisms	Toxicity to daphnia and 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	-	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)		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	-	-	
Niobium 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

<u>assessment</u>

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

vPvB

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.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Cobalt	Present (total)	-	-	-
Chromium Carbide	hazardous constituent - no waste number	-	-	-

<u>California Waste Status</u>

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
Carbide, containing tungsten carbide and cobalt	Toxic
Cobalt	Toxic
	Ignitable
Chromium Carbide	Toxic
	Corrosive



Ignitable

14. TRANSPORT INFORMATION

DOT NOT REGULATED

TDG NOT REGULATED

MEX NOT REGULATED

IMO / IMDG NOT REGULATED

ICAO / IATA-DGR NOT REGULATED

15. REGULATORY INFORMATION

Chemical Name	TSCA
Tungsten carbide	Present
Cobalt	Present
	Effective 06/01/1987, Sunset 06/01/1997
	Added 2012
Tantalum Carbide	Present
Titanium Carbide	Present
Titanium Nitride	Present
Niobium Carbide	Present
Chromium Carbide	Present
Chemical Name	RCRA
Cobalt	Present (total)
Chromium Carbide	hazardous constituent - no waste number
Chemical Name	Bolivia - hazardous substances regulated under Bolivia's Environmental Regulations
	for the Industrial Manufacturing Sector
Cobalt	Present
Chemical Name	Bolivia - hazardous substances regulated under Bolivia's Environmental Regulations
	for the Industrial Manufacturing Sector
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	3 - 5	-
Titanium Carbide	12070-08-5	1 - 2.5	-
Titanium Nitride	25583-20-4	1 - 2.5	-
Niobium Carbide	12069-94-2	0.1 - 1	-
Chromium Carbide	12012-35-0	0.1 - 1	-

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 does not contain any substances regulated as pollutants pursuant to the Clean

Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

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

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

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

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Issuing Date 2016-11-08

Revision date 2018-11-22

Revision note Initial Release

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