



1. Identification

in idontinoution			
Product identifier	All Purpose Zinc Mate™ - 368 g		
Other means of identification			
Product Code	No. 73054 (Item# 1006158)		
Recommended use	Coating		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufactured or sold by:			
Company name	CRC Canada Co.		
Address	83 Galaxy Blvd		
	Unit 35 - 37		
	Toronto, ON M9W 5X6		
	Canada		
Telephone			
General Information	416-847-7750		
24-Hour Emergency (CHEMTREC)	800-424-9300 (Canada)		
Website	www.crc-canada.ca		
E-mail	Support.CA@crcindustries.com		
2. Hazard identification			
Physical hazards	Flammable aerosols	Category 1	
-	Gases under pressure	Liquefied gas	
Health hazards	Skin corrosion/irritation	Category 2	
	Reproductive toxicity (the unborn child)	Category 2	
	Specific target organ toxicity, single exposure	Category 3 narcotic effects	
	Specific target organ toxicity, repeated exposure	Category 2	
	Aspiration hazard	Category 1	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1	
	Hazardous to the aquatic environment, long-term hazard	Category 1	
Label elements			
Signal word	Danger		
Hazard statement	swallowed and enters airways. Causes skin irr Suspected of damaging the unborn child. May	nder pressure; may explode if heated. May be fatal if itation. May cause drowsiness or dizziness. cause damage to organs through prolonged or /ery toxic to aquatic life with long lasting effects.	
Precautionary statement			
Prevention	and understood. Keep away from heat, hot su sources. No smoking. Do not spray on an ope burn, even after use. Do not breathe mist or va	handle until all safety precautions have been read rfaces, sparks, open flames and other ignition n flame or other ignition source. Do not pierce or apor. Use only outdoors or in a well-ventilated area. protection/face protection. Wash thoroughly after	

Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention. Collect spillage.	
Storage	Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Other hazards	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
zinc		7440-66-6	30 - 60
toluene		108-88-3	15 - 40
propane		74-98-6	10 - 30
n-butane		106-97-8	5 - 10
distillates (petroleum), hydrotreate light	d	64742-47-8	1 - 5
isopropyl alcohol		67-63-0	1 - 5

The exact percentage (concentration) of composition has been withheld as a trade secret. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Dry sand. Carbon dioxide (CO2). Water. Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
7. Handling and storage Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
• •	and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated

8. Exposure controls/personal protection

Occupational exposure limits

JS. ACGIH Threshold Limit Values			
Components	Туре	Value	
isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
n-butane (CAS 106-97-8)	STEL	1000 ppm	
toluene (CAS 108-88-3)	TWA	20 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value For	n
distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	200 mg/m3 Vap	or.
isopropyl alcohol (CAS 67-63-0)	STEL	984 mg/m3	
		400 ppm	
	TWA	492 mg/m3	
		200 ppm	
n-butane (CAS 106-97-8)	TWA	1000 ppm	
propane (CAS 74-98-6)	TWA	1000 ppm	
toluene (CAS 108-88-3)	TWA	188 mg/m3	

Components	onal Health & Safety Code, Sche Type	Value	Form
		50 ppm	
Canada. British Columbia OELs. (Safety Regulation 296/97, as ame		for Chemical Substances, O	-
Components	Туре	Value	Form
distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	200 mg/m3	Non-aerosol.
sopropyl alcohol (CAS 57-63-0)	STEL	400 ppm	
	TWA	200 ppm	
-butane (CAS 106-97-8)	STEL	750 ppm	
	TWA	600 ppm	
ropane (CAS 74-98-6)	TWA	1000 ppm	
oluene (CAS 108-88-3)	TWA	20 ppm	
anada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety A	nd Health Act)	
Components	Туре	Value	
sopropyl alcohol (CAS)7-63-0)	STEL	400 ppm	
	TWA	200 ppm	
-butane (CAS 106-97-8)	STEL	1000 ppm	
oluene (CAS 108-88-3)	TWA	20 ppm	
Canada. Ontario OELs. (Control o Components	f Exposure to Biological or Che Type	mical Agents) Value	
sopropyl alcohol (CAS 37-63-0)	STEL	400 ppm	
	TWA	200 ppm	
n-butane (CAS 106-97-8)	STEL	1000 ppm	
oluene (CAS 108-88-3)	TWA	20 ppm	
Canada. Quebec OELs. (Ministry	of Labor - Regulation respecting	occupational health and sa	afetv)
Components	Туре	Value	
sopropyl alcohol (CAS 7-63-0)	STEL	1230 mg/m3	
		500 ppm	
	TWA	983 mg/m3	
		400 ppm	
-butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
ropane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
oluene (CAS 108-88-3)	TWA	188 mg/m3	
		50 ppm	
Canada. Saskatchewan OELs (Oc Components	cupational Health and Safety Re Type	egulations, 1996, Table 21) Value	Form
distillates (petroleum), nydrotreated light (CAS 64742-47-8)	15 minute	250 mg/m3	Vapor.
	8 hour	200 mg/m3	Vapor.
sopropyl alcohol (CAS 57-63-0)	15 minute	400 ppm	

Canada. Saskatchewan OELs (Oo Components	Type	Value Form	
	8 hour	200 ppm	
n-butane (CAS 106-97-8)	15 minute	1250 ppm	
	8 hour	1000 ppm	
propane (CAS 74-98-6)	15 minute	1250 ppm	
	8 hour	1000 ppm	
toluene (CAS 108-88-3)	15 minute	60 ppm	
	8 hour	50 ppm	
ogical limit values ACGIH Biological Exposure Indic	es		
Components Value	Determinant	Specimen Sampling Time	

isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

* - For sampling details, please see the source document.

Exposure guidelines

Canada - Alberta OELs: Skir	n designation	
distillates (petroleum), hy (CAS 64742-47-8)	drotreated light	Can be absorbed through the skin.
toluene (CAS 108-88-3)		Can be absorbed through the skin.
Canada - British Columbia C	ELs: Skin designation	
distillates (petroleum), hy (CAS 64742-47-8)	drotreated light	Can be absorbed through the skin.
Canada - Quebec OELs: Ski	n designation	
toluene (CAS 108-88-3)		Can be absorbed through the skin.
Canada - Saskatchewan OE	Ls: Skin designation	
distillates (petroleum), hy (CAS 64742-47-8)	drotreated light	Can be absorbed through the skin.
toluene (CAS 108-88-3)		Can be absorbed through the skin.
controls Individual protection measures,	or other engineering controls exposure limits have not been wash facilities and emergency facilities and emergency show	ons. If applicable, use process enclosures, local exhaust ventilation, to maintain airborne levels below recommended exposure limits. If a established, maintain airborne levels to an acceptable level. Eye y shower should be available when handling this product. Eye wash yer must be available when handling this product.
Eye/face protection	Wear safety glasses with side	•••
Skin protection		
Hand protection	Wear protective gloves such a	as: Nitrile. Neoprene.
Other	Wear appropriate chemical re	sistant clothing.
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	observe good personal hygier	ance requirements. When using, do not eat, drink or smoke. Always ne measures, such as washing after handling the material and before ng. Routinely wash work clothing and protective equipment to

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Aerosol.
Color	Gray.
Odor	Aromatic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	95 °F (35 °C) estimated
Flash point	-2.2 °F (-19 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	1.7 %
Flammability limit - upper (%)	10.9 %
Vapor pressure	1466.1 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.77 - 0.85
Solubility(ies)	
Solubility (water)	Negligible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	410 °F (210 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Percent volatile	59.4 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.	
Skin contact	Causes skin irritation.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.	
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.	
Information on toxicological effects		

Acute toxicity

May be fatal if swallowed and enters airways.

Components	Species	Test Results
distillates (petroleum), hydrotreate	ed light (CAS 64742-47-8)	
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg, 2.5 hours
sopropyl alcohol (CAS 67-63-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	5030 - 7900 mg/kg
Inhalation		
LC50	Rat	16000 ppm, 4 hours
		39.3 mg/l, 4 hours
Oral		
LD50	Rat	4700 - 5800 mg/kg
oluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
LC50	Rat	12.5 mg/l, 4 hours
Oral		
LD50	Rat	5580 mg/kg
zinc (CAS 7440-66-6)		
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
	be based on additional compone	ent data not shown.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye rritation	Direct contact with eyes may	cause temporary irritation.
Respiratory or skin sensitizatio		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected	to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate mutagenic or genotoxic.	product or any components present at greater than 0.1% are
Carcinogenicity		
ACGIH Carcinogens		
isopropyl alcohol (CAS 67-63-0) toluene (CAS 108-88-3)		A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen.
Canada - Manitoba OELs: o	carcinogenicity	
isopropyl alcohol (CAS 6 toluene (CAS 108-88-3)		Not classifiable as a human carcinogen. Not classifiable as a human carcinogen.
÷ .	Evaluation of Carcinogenicity	
toluene (CAS 108-88-3)		3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Suspected of damaging the	unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness and o	lizziness.
Specific target organ toxicity - repeated exposure	May cause damage to organ	s through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and	d enters airways.

Chronic effects

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological information

Vory toxic to a	auatia lifa with	long locting offecte
	iquatic me with	long lasting effects.

otoxicity	Very toxic	to aquatic life with long lasting effects.	
Components		Species	Test Results
distillates (petroleum), h	nydrotreated light	(CAS 64742-47-8)	
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 1000 mg/l, 96 hours
isopropyl alcohol (CAS	67-63-0)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
toluene (CAS 108-88-3))		
Acute			
Other	EC50	Pseudokirchnerella subcapitata	433 mg/l, 96 hours
			12.5 mg/l, 72 hours
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	6 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	5.5 mg/l, 96 hours
zinc (CAS 7440-66-6)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.56 mg/l, 96 hours
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	0.068 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.56 mg/l, 96 hours
			0.482 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential

Μ 0

Partition coefficient n-oc	ctanol / water (log Kow) 0.05	
isopropyl alcohol n-butane	2.89	
propane	2.36	
toluene	2.73	
Bioconcentration factor	(BCF)	
toluene	90	
Aobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

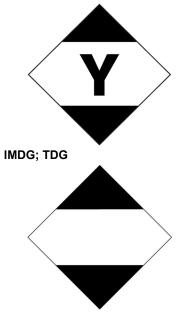
Disposal instructions	Contents under pressure. Do not puncture, incinerate or crush. Empty container can be recycled. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG	
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TD	3	
	UN number	UN1950
	UN proper shipping name	AEROSOLS, flammable, Limited Quantity
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Packing group	Not applicable.
	Environmental hazards	Yes, but exempt from the regulations.
		Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	80
IAT	Α	
	UN number	UN1950
	UN proper shipping name	Aerosols, flammable, Limited Quantity
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Packing group	Not applicable.
	ERG Code	10L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo	Allowed with restrictions.
	aircraft	
	Cargo aircraft only	Allowed with restrictions.
IME	-	
	UN number	
	UN proper shipping name	AEROSOLS, Limited Quantity
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Packing group	Not applicable.
	Environmental hazards	
	Marine pollutant	Yes, but exempt from the regulations.
	EmS	Not available.
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA



15. Regulatory information

Canadian regulations Controlled Drugs and Substances Act Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. **Greenhouse Gases** Not listed. Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011) toluene (CAS 108-88-3) zinc (CAS 7440-66-6) **Precursor Control Regulations** toluene (CAS 108-88-3) Class B International regulations **Stockholm Convention** Not applicable. **Rotterdam Convention** Not applicable. Kyoto protocol Not applicable. **Montreal Protocol** Not applicable. **Basel Convention** zinc (CAS 7440-66-6) International Inventories Country(s) or region Inventory name Australia Australian Inventory of Chemical Substances (AICS) Canada Domestic Substances List (DSL) Canada Non-Domestic Substances List (NDSL) China Inventory of Existing Chemical Substances in China (IECSC) Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Japan Korea Existing Chemicals List (ECL)

New ZealandNew Zealand InventoryYesPhilippinesPhilippine Inventory of Chemicals and Chemical Substances
(PICCS)YesTaiwanTaiwan Chemical Substance Inventory (TCSI)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	04-25-2019
Version #	01
Disclaimer	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Canada Co
Revision information	This document has undergone significant changes and should be reviewed in its entirety.

On inventory (yes/no)*

Yes

Yes

No

Yes

Yes

No

No

Yes