

## SAFETY DATA SHEET

## 1. Identification

Product identifier	CIMTECH® 100 METALWORKING FLUID		
Other means of identification SDS number	Not applicable		
Product code	B00107		
Recommended use	METALWORKING FLUID		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Company name	CIMCOOL® Industrial Products LLC		
	3000 Disney Street		
	Cincinnati, Ohio 45209		
Telephone (General Information)	513-458-8100		
Emergency telephone number	1-800-424-9300 (CHEMTREC)		
Emergency telephone number (outside USA)	1-703-527-3887 (CHEMTREC)		
Supplier			
Company name	DUBOIS CHEMICAL CANADA INC dba CIM	COOL® Canada	
Address	B1 – 1175 Appleby Line		
	Burlington, ON L7L 5H9 Canada		
Telephone (General Information)	905-319-1919		
Emergency telephone number (outside USA)	1-703-527-3887 (CHEMTREC)		
Supplier	Not available.		
2. Hazard identification			
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Serious eye irritation	Category 2	
	Reproductive toxicity	Category 2	
Environmental hazards	Not classified.		
Label elements			
	$\wedge$		

Signal word Hazard statement

May be corrosive to metals. Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original packaging. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Warning

Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Absorb spillage to prevent material-damage.
Storage	Store locked up. Store in a corrosion resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	None known.
Supplemental information	Use in manufacturing processes only.

## 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
TRIETHANOLAMINE		102-71-6	5 - 10
MONOETHANOLAMINE		141-43-5	1 - 5
TRIS[(2-HYDROXYETHYL)A IUM] ORTHOBORATE	MMON	68797-44-4	1 - 5
TOLYLTRIAZOLE, SODIUM	SALT	64665-57-2	0.1 - 1
Other components below repo	ortable levels		90 - 100

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
General information	If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Not applicable, non-combustible.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
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.

## 6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear
protective equipment and	appropriate protective equipment and clothing during clean-up. Do not touch damaged containers
emergency procedures	or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.
0 11	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	Local authorities should be advised if significant spillages cannot be contained. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
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. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original container. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	

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

Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	7.5 mg/m3	
		3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm

Components	eg. 217/2006, The Workplace Safety An Type	Value
	TWA	3 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
Canada. Ontario OELs. (Con	ntrol of Exposure to Biological or Cher	nical Agents)
Components	Туре	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA	3.1 mg/m3
		0.5 ppm
Canada. Quebec OELs. (Mir Components	nistry of Labor - Regulation respecting Type	occupational health and safety) Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3
(		6 ppm
	TWA	7.5 mg/m3
		3 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TRIETHANOLAMINE (CAS TWA 5 mg/m3	
Canada. Saskatchewan OEI Components	₋s (Occupational Health and Safety Re Type	gulations, 1996, Table 21) Value
MONOETHANOLAMINE (CAS 141-43-5)	15 minute	6 ppm
	8 hour	3 ppm
TRIETHANOLAMINE (CAS 102-71-6)	15 minute	10 mg/m3
	8 hour	5 mg/m3
logical limit values	No biological exposure limits noted for	
propriate engineering trols	applicable, use process enclosures, loc maintain airborne levels below recomm	d. Ventilation rates should be matched to conditions. If cal exhaust ventilation, or other engineering controls to ended exposure limits. If exposure limits have not been an acceptable level. Eye wash fountain and emergency
-	such as personal protective equipment	
Eye/face protection	Do not get in eyes. Wear safety glasse: recommended.	s with side shields (or goggles). Eye wash fountain is
Skin protection		
Hand protection	Nitrile gloves are recommended.	
Other	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clo	othing, when necessary.
neral hygiene siderations	Observe any medical surveillance requirements. When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	
Physical and chemical	properties	
bearance	CLEAR	
Physical state	Liquid.	
-		

Material name:	CIMTECH® 100	
Version #: 07	Revision date: 08-03-2021	Issue date: 04-03-2017

Form Color Liquid.

Not available.

Odor	CHEMICAL
Odor threshold	Not available.
рН	10.2
Melting point/freezing point	< 28 °F (< -2.2 °C)
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	Not Applicable
Evaporation rate	Like water when diluted
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.05
Solubility(ies)	
Solubility (water)	100 % Water Miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
pH in aqueous solution	8.8 @ 5%
Specific gravity	1.049
VOC ASTM D2369	11 %
10. Stability and reactivity	
Reactivity	May be corrosive to metals.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Acide Oxidizing agents Motels. Do not add sodium nitrite or other nitreseting ag

 Incompatible materials
 Acids. Oxidizing agents. Metals. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines.

 Hazardous decomposition products
 Smoke, fumes, oxides of nitrogen, and oxides of carbon

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Health injuries are not known or expected under normal use.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Causes eye irritation.
Ingestion	Expected to be a low ingestion hazard. Health injuries are not known or expected under normal use.

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

#### Information on toxicological effects

## Acute toxicity

Componente	Species		Test Desults
Components	Species Test Results		
TOLYLTRIAZOLE, SODIUM SAL	T (CAS 64665-57-2)		
<u>Acute</u>			
Dermal			
Solid	Dabbit		
LD50	Rabbit		> 2000 mg/kg
Oral			
Solid	Det		705 000 "
LD50	Rat		735 - 930 mg/kg
TRIETHANOLAMINE (CAS 102-7	(1-6)		
<u>Acute</u>			
Dermal			
Liquid LD50	Rabbit		> 2000 mg/kg
	Rabbit		> 2000 mg/kg
Oral			
Liquid LD50	Rat		4100 malka
			4190 mg/kg
TRIS[(2-HYDROXYETHYL)AMM	UNIUM] URTHUBURATE (CA	5 68/9/-44-4)	
<u>Acute</u>			
Dermal Liquid			
LD50	Rabbit		> 2504 mg/kg ATE
	Rabbit		
<b>Oral</b> Liquid			
LD50	Rat		> 1515 mg/kg ATE
		n ar avpacted under no	
Skin corrosion/irritation	-	Health injuries are not known or expected under normal use.	
Serious eye damage/eye irritation	Causes eye initation.	Causes eye irritation.	
Respiratory or skin sensitizatio	n		
Canada - Alberta OELs: Irri	tant		
MONOETHANOLAMINE TRIETHANOLAMINE (C		Irritant Irritant	
Canada - Quebec OELs: Se	ensitizer		
TRIETHANOLAMINE (C	AS 102-71-6)	Sensitizer.	
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected	I to cause skin sensitiza	ation.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not consider	ed to be a carcinogen b	y IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	Evaluation of Carcinogenici	y	
TRIETHANOLAMINE (C	AS 102-71-6)	3 Not classifiable as	s to carcinogenicity to humans.
Reproductive toxicity	Tolytriazole, a component of this product, is suspected of damaging the unborn child (per EC / List no.: 265-004-9).		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		

Chronic effects	Prolonged	l inhalation may be harmful. May be harmfu	ul if absorbed through skin.
		l or repeated exposure may cause liver and erved in humans.	d kidney damage. These effects have not
Further information		ification for health and environmental haza and test data, if available.	rds is derived by a combination of calculation
12. Ecological information	on		
Ecotoxicity		The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Components		Species	Test Results
MONOETHANOLAMINE (C	AS 141-43-5)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	114 - 196 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia	65 mg/l, 48 hours ECHA
TOLYLTRIAZOLE, SODIUM	A SALT (CAS	64665-57-2)	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	8.58 - 15.8 mg/l, 48 hours
Fish	LC50	Rainbow Trout	25 mg/l, 96 hours
TRIETHANOLAMINE (CAS	102-71-6)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	450 - 1000 mg/l, 96 hours
TRIS[(2-HYDROXYETHYL) Aquatic	AMMONIUM]	ORTHOBORATE (CAS 68797-44-4)	
Acute			
Crustacea	EC50	Daphnia	496 mg/l, 48 hours
Fish	LC50	Fish	617 mg/l, 96 hours
Persistence and degradability	No data is	available on the degradability of any ingre	edients in the mixture.
Bioaccumulative potential		a canadra on the adgraduality of any ingre	

Partition coefficient r	n-octanol / water (log Kow)	
MONOETHANOLAMI	NE	-1.31
TOLYLTRIAZOLE, SODIUM SALT		1.087, @ 25°C
TRIETHANOLAMINE		-2.3
TRIS[(2-HYDROXYET	HYL)AMMONIUM] ORTHOBORATE	-4.37, @ 25°C pH7
Mobility in soil	This product is miscible with v	water.

Other adverse effectsNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation<br/>potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
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

TDG	
UN number	UN3267
UN proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (MONOETHANOLAMINE, TRIETHANOLAMINE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	UN3267
UN proper shipping name Transport hazard class(es)	Corrosive liquid, basic, organic, n.o.s. (MONOETHANOLAMINE, TRIETHANOLAMINE)
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	8L
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN3267
UN proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (MONOETHANOLAMINE, TRIETHANOLAMINE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
· · ·	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

#### IATA; IMDG; TDG



## 15. Regulatory information

**Canadian regulations** 

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed.

Greenhouse Gases		
Not listed.		
Precursor Control Regulation	ons	
Not regulated.		
ernational regulations		
Stockholm Convention		
Not applicable. Rotterdam Convention		
Not applicable. <b>Kyoto protocol</b>		
Not applicable. Montreal Protocol		
Not applicable. Basel Convention		
Not applicable.		
ernational Inventories		
Country(s) or region	Inventory name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
	(11000)	

#### 16. Other information

Issue date	04-03-2017
Revision date	08-03-2021
Version #	07
NFPA ratings	Health: 1 Flammability: 0 Instability: 0
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.