

SAFETY DATA SHEET

1. Identification

Product identifier	CIMTECH® 410C	
	METALWORKING FLUID	
Other means of identification		
SDS number	Not applicable	
Product code	B00200	
Recommended use	METALWORKING FLUID	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	r/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 d	ba CIMCOOL® 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 2A
Environmental hazards	Not classified.	
Label elements		
Signal word	Warning	
Hazard statement	May be corrosive to metals. Causes s	erious eye irritation.
Precautionary statement		
Prevention	Keep only in original packaging. Wash protection.	n thoroughly after handling. Wear eye protection/face
Response		ter for several minutes. Remove contact lenses, if present e irritation persists: Get medical advice/attention. Absorb
Storage	Store in a corrosion resistant containe	r with a resistant inner liner.
Material name: CIMTECH® 410C		SDS Canad

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	10 - 30
MONOETHANOLAMINE		141-43-5	5 - 10
TRIAZINETRIETHANOL		4719-04-4	1 - 5
Other components below reportab	le levels		60 - 80

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 Spray or Fog. Foam. Dry 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, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	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	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. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	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/pers	onal protection
Occupational exposure limits	

US. ACGIH Threshold Limit Values 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 (Occupation Components	•	hedule 1, Table 2) Value
	Туре	
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. (C Safety Regulation 296/97, as amen		s for Chemical Substances, Occupational Health and
Components	Туре	Value
	STEL	6 ppm

Componente	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	T dido	
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	
	TWA	3 ppm	

5 mg/m3 nts) Value 6 ppm 3 ppm 3.1 mg/m3 0.5 ppm onal health and safety) Value 15 mg/m3 6 ppm 7.5 mg/m3 3 ppm 5 mg/m3 3 ppm 5 mg/m3 5 mg/m3 ient(s). tion rates should be matched to conditions. If		
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t ventilation, or other engineering controls to posure limits. If exposure limits have not been table level. Eye wash fountain and emergency		
e shields (or goggles). Eye wash fountain is		
Nitrile gloves are recommended. Wear suitable protective clothing.		
In case of insufficient ventilation, wear suitable respiratory equipment.		
Wear appropriate thermal protective clothing, when necessary.		
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.		
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Odor

CHEMICAL

Odor threshold	Not available.
рН	9.7
Melting point/freezing point	< 20 °F (< -6.7 °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	1.06
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	8.5 @ 5%
Specific gravity	1.058
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	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
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, hydrogen chloride, 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.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects Acute toxicity **Test Results** Components Species TRIAZINETRIETHANOL (CAS 4719-04-4) Acute Dermal Liquid LD50 Rat 4000 mg/kg Oral Liquid LD50 Rat 1000 mg/kg TRIETHANOLAMINE (CAS 102-71-6) Acute Dermal Liquid Rabbit LD50 > 2000 mg/kg Oral Liauid LD50 Rat 4190 mg/kg Skin corrosion/irritation Not classified. Causes eye irritation. Serious eye damage/eye irritation Respiratory or skin sensitization Canada - Alberta OELs: Irritant MONOETHANOLAMINE (CAS 141-43-5) Irritant TRIETHANOLAMINE (CAS 102-71-6) Irritant Canada - Quebec OELs: Sensitizer TRIETHANOLAMINE (CAS 102-71-6) Sensitizer. **Respiratory sensitization** Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. IARC Monographs. Overall Evaluation of Carcinogenicity TRIETHANOLAMINE (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans. This product is not expected to cause reproductive or developmental effects. **Reproductive toxicity** Specific target organ toxicity -Not classified. single exposure Specific target organ toxicity -Not classified. repeated exposure Aspiration hazard Not an aspiration hazard. Prolonged inhalation may be harmful. May be harmful if absorbed through skin. **Chronic effects** Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans. **Further information** The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. 12. Ecological information

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	Components		Test Results		
MONOETHANOLAMINE (CAS	6 141-43-5)				
Aquatic					
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	114 - 196 mg/l, 96 hours		
<i>Acute</i> Crustacea I	EC50	Daphnia	65 mg/l, 48 hours ECHA		
TRIAZINETRIETHANOL (CAS	6 4719-04-4)				
Aquatic Acute					
Crustacea	EC50	Daphnia	11.9 mg/l, 48 hours ECHA		
Fish	LC50	Fish	16 - 240 mg/l, 96 hours ECHA		
TRIETHANOLAMINE (CAS 10)2-71-6)		-		
Aquatic	,				
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours		
<i>Acute</i> Fish I	LC50	Bluegill (Lepomis macrochirus)	450 - 1000 mg/l, 96 hours		
Persistence and degradability	No data is ava	ailable on the degradability of any ingredie	nts in the mixture.		
Bioaccumulative potential					
Partition coefficient n-octane MONOETHANOLAMINE TRIAZINETRIETHANOL	ctanol / water (log Kow) -1.31 -2				
TRIETHANOLAMINE		-2.3			
Mobility in soil	This product is miscible with water.				
Other adverse effects		erse environmental effects (e.g. ozone dep ocrine disruption, global warming potential			
13. Disposal consideration	IS				
Disposal instructions	Collect and re	claim or dispose in sealed containers at lic ainer in accordance with local/regional/nati			
Local disposal regulations	Dispose in ac	cordance with all applicable regulations.	-		
Hazardous waste code	The waste co disposal com	de should be assigned in discussion betwe bany.	een the user, the producer and the waste		
Waste from residues / unused products		accordance with local regulations. Empty o ues. This material and its container must bo uctions).			
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					
UN number UN proper shipping name	UN3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (MONOETHANOLAMINE, TRIETHANOLAMINE)				
Transport hazard class(es)	TRIETHANOLAMINE)				
Class	8				
Subsidiary risk	-				
Packing group	111				
Environmental hazards Special precautions for user	D · Read safety ii	ostructions SDS and emergency procedur	es before handling		
IATA	Special precautions for user Read safety instructions, SDS and emergency procedures before handling. TA				
UN number	ber UN3267				
UN proper shipping name Transport hazard class(es)	Corrosive liqu	id, basic, organic, n.o.s. (MONOETHANO	LAMINE, TRIETHANOLAMINE)		
Class	8				
Subsidiary risk	-				

Packing group	III
Environmental hazards	No.
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
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
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and the IBC Code	





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 Regulations Not regulated. International regulations Stockholm Convention Not applicable. Rotterdam Convention Not applicable. Kyoto protocol Not applicable. Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name On inventory or exemption	ot (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)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered by the governing country(s)	

16. Other information

Issue date Revision date Version # NFPA ratings	08-02-2017 10-22-2021 08 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	Product and Company Identification: Cimcool Attributes Hazard identification: Hazard statement Hazard identification: Prevention Hazard identification: Response Composition / Information on Ingredients: Ingredients Fire-fighting measures: Suitable extinguishing media Handling and storage: Precautions for safe handling Exposure controls/personal protection: General hygiene considerations Physical & Chemical Properties: Multiple Properties Stability and reactivity: Incompatible materials Toxicological information: Reproductivity GHS: Classification