SAFETY DATA SHEET



1. Identification

Product identifier CIMTECH® GL2015

METALWORKING FLUID

Other means of identification

SDS number Not applicable B00186 **Product code**

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

Milacron Canada Corp. Company name

Address 1175 Appleby Line Road, Unit B-1

Burlington Ontario L7L5H9 Canada

Telephone (General

Information)

905-319-1919

Emergency telephone number (outside USA) 1-703-527-3887 (CHEMTREC)

Supplier Not available.

2. Hazard(s) identification

Not classified. Physical hazards

Skin irritation Category 2 **Health hazards**

> Serious eye irritation Category 2A

Environmental hazards Not classified.

Label elements



Signal word

Causes skin irritation. Causes serious eye irritation. **Hazard statement**

Precautionary statement

Prevention Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. IF IN Response EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

Material name: CIMTECH® GL2015 SDS Canada 1/8 Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

Supplemental information 1.2% of the mixture consists of component(s) of unknown acute oral toxicity. 1.2% of the mixture

consists of component(s) of unknown acute dermal toxicity. 23.59% of the mixture consists of

component(s) of unknown acute inhalation toxicity.

The classified hazards shown on this SDS are associated with the product concentrate. These

hazards are not expected under recommended use conditions and dilution.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	<u></u>
MONOETHANOLAMINE		141-43-5	≤15
TRIETHANOLAMINE		102-71-6	≤10
UNDECANEDIOIC ACID		1852-04-6	≤3
Other components below repo	rtable levels		≤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. Get medical

attention if irritation develops and persists.

Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Do not induce vomiting. If vomiting occurs, Ingestion

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

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

Indication of immediate medical attention and special

treatment needed **General information** Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

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

Alcohol resistant foam. Powder. Carbon dioxide (CO2). Use extinguishing measures that are

Unsuitable extinguishing

media

appropriate to local circumstances and the surrounding environment.

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 Use standard firefighting procedures and consider the hazards of other involved materials. 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.

General fire hazards No unusual fire or explosion hazards noted.

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.

Material name: CIMTECH® GL2015

SDS Canada

Methods and materials for containment and cleaning up

Local authorities should be advised if significant spillages cannot be contained. Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water. 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 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.

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 original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Do not allow material to freeze. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

COLLING THE COLLEGE THE CALLED	-		
	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm	
Canada. Alberta OELs (Occupatio	nal Health & Safety Code, So	hedule 1, Table 2)	
, ,	Туре	Value	
MONIOETHANIOLANDIE	OTEL	45 4.0	

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

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

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

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

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

Material name: CIMTECH® GL2015

SDS Canada

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	3.1 mg/m3	
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	0.5 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Canada Quesco Class (ca y c. lasco	Туре	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3
		6 ppm
	TWA	7.5 mg/m3
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is

recommended.

Skin protection

Hand protection Use protective gloves made of: Nitrile.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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.

9. Physical and chemical properties

Appearance CLEAR
Physical state Liquid.
Form Liquid.
Color Not available.
Odor CHEMICAL
Odor threshold Not available.

pH 10.1

Melting point/freezing point $< 32 \degree F (< 0 \degree C)$ Initial boiling point and boiling $> 212 \degree F (> 100 \degree C)$

range

Flash point Not Applicable

Evaporation rate Like water when diluted

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available. Not available.

Explosive limit - upper (%) Vapor pressure Not available. Not available. Vapor density Relative density Not available.

Solubility(ies)

100 % Water Miscible Solubility (water)

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature Decomposition temperature

Not available. Not available. Not available.

Other information

Viscosity

Explosive properties Not explosive. Oxidizing properties Not oxidizing. 8.8 @ 5% pH in aqueous solution Specific gravity 1.096

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability**

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. 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

Not classified. Inhalation

Causes skin irritation. Skin contact Eye contact Causes eye irritation.

Not classified. Ingestion

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. Skin irritation.

Information on toxicological effects

Not known. **Acute toxicity**

Test Results Components **Species**

MONOETHANOLAMINE (CAS 141-43-5)

Acute **Dermal**

LD50 Rabbit 1025 mg/kg

TRIETHANOLAMINE (CAS 102-71-6)

Acute **Dermal** Liquid

LD50 Rabbit > 2000 mg/kg

SDS Canada 5/8 Components **Species Test Results**

Oral Liquid

LD50 Rat 4190 mg/kg

UNDECANEDIOIC ACID (CAS 1852-04-6)

Acute **Dermal** Solid

Rabbit LD50 > 3000 mg/kg ATE

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

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes eye irritation.

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.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

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 -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Not classified.

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 Contains a substance which causes risk of hazardous effects to the environment.

Components		Species	Test Results
MONOETHANOLAMIN	NE (CAS 141-43-5)		
Aquatic			
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	114 - 196 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
UNDECANEDIOIC AC	ID (CAS 1852-04-6	3)	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	220 mg/l, 48 hours

Material name: CIMTECH® GL2015

SDS Canada

Test Results Components **Species**

LC50 Fathead minnow (Pimephales promelas) 200 mg/l, 96 hours Fish

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

MONOETHANOLAMINE -1.31**TRIETHANOLAMINE** -2.3

Mobility in soil This product is miscible in water.

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 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.

Dispose in accordance with all applicable regulations. Local disposal 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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not established.

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.

Material name: CIMTECH® GL2015 7/8

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

Basel Convention

Not applicable.

International 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	Yes
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 components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

Issue date 05-24-2017

Version # 01

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 Product and Company Identification: Product and Company Identification

Hazards Identification: US Hazard Categories Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Transport Information: Proper Shipping Name/Packing Group

Regulatory Information: United States

Material Attributes & Uses; Experimental Data: Product Uses

HazReg Data: North America

GHS: Classification