# SAFETY DATA SHEET



1. Identification **Product identifier** 

**CIMTECH® 304MA** 

METALWORKING FLUID

Other means of identification

SDS number Not applicable B00005 **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

DUBOIS CHEMICAL CANADA INC dba CIMCOOL® Canada Company name

**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 Not classified.

**Health hazards** Serious eye irritation

**Environmental hazards** Not classified.

Label elements



Warning Signal word

**Hazard statement** Causes serious eye irritation.

**Precautionary statement** 

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

Response IF IN 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.

Category 2

Store away from incompatible materials. Storage

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

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SDS Canada

Other hazards None known.

Supplemental information 1% of the mixture consists of component(s) of unknown acute inhalation toxicity.

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
MONOISOPROPANOLAMINE		78-96-6	1 - 5
Other components below repor	table 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.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

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. 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.

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.

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# 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. 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 tightly closed 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

US. ACGIH Threshold Limit Values Components	S Type	Value
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
Canada. Alberta OELs (Occupatio	nal Hoalth & Safety Code, Sche	dule 1 Table 2)
Components	Type	Value
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
Canada. British Columbia OELs. ( Safety Regulation 296/97, as amer		for Chemical Substances, Occupational Health and
Components	Туре	Value
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
Canada. Manitoba OELs (Reg. 217	/2006, The Workplace Safety A	nd Health Act)
Components	Туре	Value
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
Canada. Ontario OELs. (Control o	Exposure to Biological or Che	emical Agents)
Components	Туре	Value
TRIETHANOLAMINE (CAS 102-71-6)	TWA	3.1 mg/m3
		0.5 ppm
Canada. Quebec OELs. (Ministry o	of Labor - Regulation respecting	g occupational health and safety)
Components	Туре	Value
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
Canada. Saskatchewan OELs (Oc	cupational Health and Safety R	egulations, 1996, Table 21)
Components	Туре	Value
TRIETHANOLAMINE (CAS	15 minute	10 mg/m3

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5 mg/m3

8 hour

102-71-6)

Biological limit values

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

Appropriate engineering

controls

Good general ventilation 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 Do not get in eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is

recommended.

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 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** 8.1

Melting point/freezing point  $< 16 \degree F (< -8.9 \degree C)$ 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.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.07

Solubility(ies)

Solubility (water) 100 % Water Miscible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

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Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

pH in aqueous solution 7.5 @ 5%

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1.0693 Specific gravity VOC ASTM D2369 9 %

# 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, flames and sparks. Contact with incompatible materials.

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

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.

Eve contact Causes eye irritation.

Expected to be a low ingestion hazard. Health injuries are not known or expected under normal Ingestion

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** 

MONOISOPROPANOLAMINE (CAS 78-96-6)

**Acute Dermal** Liquid

LD50 Rabbit

1576 mg/kg

TRIETHANOLAMINE (CAS 102-71-6)

Acute **Dermal** 

Liquid

LD50 Rabbit > 2000 mg/kg

Oral

Liquid

LD50 Rat 4190 mg/kg

Not classified. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes eye irritation.

None known. Respiratory or skin

sensitization

Canada - Alberta OELs: Irritant

TRIETHANOLAMINE (CAS 102-71-6) Irritant

Canada - Quebec OELs: Sensitizer

TRIETHANOLAMINE (CAS 102-71-6) Sensitizer.

Not a respiratory sensitizer. Respiratory sensitization

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

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### IARC Monographs. Overall Evaluation of Carcinogenicity

TRIETHANOLAMINE (CAS 102-71-6)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

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 inhalation may be harmful. May be harmful if absorbed through skin.

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		Species	Test Results
MONOISOPROPANO	LAMINE (CAS 78-9	06-6)	
Aquatic			
Fish	LC50	Goldfish (Carassius auratus)	210 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia	109 mg/l, 48 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

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

MONOISOPROPANOLAMINE -0.93 TRIETHANOLAMINE -2.3

Mobility in soil This product is miscible with 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.

**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

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**TDG** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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#### **IMDG**

Not regulated as dangerous goods.

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

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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)	Yes
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 compo	nents of this product comply with the inventory requirements administered by the governing country(s)	

#### 16. Other information

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Version # 03
NFPA ratings Health: 1

Flammability: 0
Instability: 0

Inventory name

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On inventory or exempt (yes/no)\*

#### **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.

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