# SAFETY DATA SHEET



# 1. Identification

**Product identifier CIMPERIAL® 16EP-HFP** 

METALWORKING FLUID

Other means of identification

SDS number Not applicable B01016 **Product code** 

METALWORKING FLUID Recommended use

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 identification

Not classified. Physical hazards

**Health hazards** Serious eye irritation

**Environmental hazards** Not classified.

Label elements



Warning Signal word

**Hazard statement** Causes serious eye irritation.

**Precautionary statement** 

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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Other hazards None known.

Supplemental information 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	%
SEVERELY-HYDROTREATED NAPHTHENIC DISTILLATES		64742-52-5	30 - 60
ALKANES C14-16, CHLORO		63449-39-8	10 - 30
ALKOXYLATED LINEAR ALCOHOLS		68987-81-5	1 - 5
MONOETHANOLAMINE		141-43-5	1 - 5
TRIAZINETRIETHANOL		4719-04-4	1 - 5
TRIETHANOLAMINE		102-71-6	1 - 5
Other components below reports	ble levels		10 - 30

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.

Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Wash Skin contact

contaminated clothing before reuse.

redness, swelling, and blurred vision.

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical Eye contact

attention if irritation develops and persists.

Rinse mouth thoroughly. Do not give liquids. Do not induce vomiting. If vomiting occurs, keep head Ingestion

low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

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

Foam. Dry chemicals. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to

local circumstances and the surrounding environment.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

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. Avoid breathing mist/vapor. 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. 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 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.

**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

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 or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Keep away from heat and sources of ignition. Store in tightly closed container. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

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	Туре	Value	
SEVERELY-HYDROTREAT ED NAPHTHENIC DISTILLATES (CAS 64742-52-5)	TWA	5 mg/m3	
US. ACGIH Threshold Limit Value	s		
	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 (Occupatio	nal Health & Safety Code, Sc	nedule 1, Table 2)	
	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. ( Safety Regulation 296/97, as amer		s for Chemical Substances, Occupational Health	and

	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)

	Туре	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm
(0.12 )	TWA	3 ppm

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

• • • • • • • • • • • • • • • • • • • •	Туре	Value	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	

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

·	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 nnm	

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

	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	

**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

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

recommended.

Skin protection

Hand protection Nitrile gloves are recommended.

Wear appropriate chemical resistant clothing. Other

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** Liquid. **Physical state Form** Liquid. Color Not available. Chemical Odor **Odor threshold** Not available. Not Applicable pН Melting point/freezing point Not available. Initial boiling point and boiling Not Applicable range

360 °F (182.2 °C) Cleveland Open Cup Flash point

Like water when diluted **Evaporation rate** 

Flammability (solid, gas) Not applicable.

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Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

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

Not available. Vapor density Not available. Relative density

Solubility(ies)

100 % Water Miscible Solubility (water)

**Partition coefficient** (n-octanol/water)

Not available.

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

Not explosive. **Explosive properties** Flash point class Combustible IIIB Oxidizing properties Not oxidizing. pH in aqueous solution 8.8 @ 5% Specific gravity 1.006 10 % VOC ASTM D2369

# 10. Stability and reactivity

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

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

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

Acids. Oxidizing agents.

**Hazardous decomposition** 

products

Smoke, fumes, oxides of nitrogen, hydrogen chloride, and oxides of carbon

## 11. Toxicological information

Information on likely routes of exposure

Not classified. Inhalation Skin contact Not classified.

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.

Information on toxicological effects

**Acute toxicity** 

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**Test Results** Components **Species** ALKANES C14-16, CHLORO (CAS 63449-39-8) **Acute Dermal** Liquid LD50 Rabbit > 2000 mg/kg Oral Liquid LD50 Rat > 5000 mg/kg ALKOXYLATED LINEAR ALCOHOLS (CAS 68987-81-5) **Acute Dermal** Liquid LD50 Rabbit > 2000 mg/kg ATE Oral Liquid LD50 Rat 2380 - 2745 mg/kg ATE SEVERELY-HYDROTREATED NAPHTHENIC DISTILLATES (CAS 64742-52-5) **Acute Dermal** Liquid LD50 Rabbit > 5000 mg/kg Inhalation Mist LC50 Rat > 5 mg/l, 4 hours Oral Liquid LD50 Rat > 5000 mg/kg 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 LD50 Rabbit > 2000 mg/kg Oral Liquid LD50 Rat 4190 mg/kg Not classified. Skin corrosion/irritation Causes eye irritation. Serious eye damage/eye irritation Respiratory or skin sensitization Canada - Alberta OELs: Irritant

Irritant

Irritant

Sensitizer.

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MONOETHANOLAMINE (CAS 141-43-5)

TRIETHANOLAMINE (CAS 102-71-6)

TRIETHANOLAMINE (CAS 102-71-6)

Canada - Quebec OELs: 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.

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

Oil /Distillate meets the EU requirement of less than 3% (w/w) DMSO extract for total polycyclic

aromatic compound (PAC) using IP 346.

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 -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

**Aspiration hazard** 

Not classified.

Not classified.

repeated exposure

Not an aspiration hazard.

Chronic effects
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

ALKANES C14-16, CHLORO (CAS 63449-39-8)

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) > 0.1 mg/l, 96 hours

ALKOXYLATED LINEAR ALCOHOLS (CAS 68987-81-5)

Aquatic

Acute

Crustacea EC50 Daphnia 1 - 10 mg/l, 48 hours
Fish LC50 Pimephales promelas 1 - 10 mg/l, 96 hours

MONOETHANOLAMINE (CAS 141-43-5)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 114 - 196 mg/l, 96 hours

(Oncorhynchus mykiss)

Acute

Crustacea EC50 Daphnia 65 mg/l, 48 hours ECHA

TRIAZINETRIETHANOL (CAS 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 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 Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

ALKOXYLATED LINEAR ALCOHOLS 3.01
MONOETHANOLAMINE -1.31

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SDS Canada

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

Partition coefficient n-octanol / water (log Kow)

**TRIAZINETRIETHANOL** -2 -2.3 **TRIETHANOLAMINE** 

**Bioconcentration factor (BCF)** 

MONOETHANOLAMINE < 3.2, ESTIMATED

Mobility in soil This product is miscible in water.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

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:

Environmentally hazardous substance, liquid, n.o.s. (ALKANES C14-16, CHLORO)

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

TDG

UN3082 **UN** number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKANES C14-16, **UN proper shipping name** 

CHLORO), MARINE POLLUTANT

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN3082 **UN** number

**UN** proper shipping name

Transport hazard class(es)

9 Class Subsidiary risk Packing group Ш **Environmental hazards** Yes **ERG Code** 91

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Allowed with restrictions. Cargo aircraft only

**IMDG** 

UN3082 **UN** number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKANES C14-16, **UN** proper shipping name

CHLORO), MARINE POLLUTANT

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant Yes F-A, S-F **EmS** 

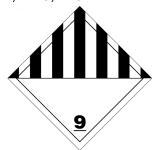
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

IATA; IMDG; TDG



## Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

# 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 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

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Country(s) or region Inventory name On inventory or exempt (yes/no)\* Europe European Inventory of Existing Commercial Chemical Substances (EINECS) 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 No

(PICCS)

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

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 10-26-2017

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 08-21-2018

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NFPA ratings Health: 1

Flammability: 1 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.

Material name: CIMPERIAL® 16EP-HFP SDS Canada

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