# SAFETY DATA SHEET

# 1. Identification

**Product identifier CIMCLEAN® OAK® KLEEN 340** 

GENERAL PURPOSE CLEANER

Other means of identification

SDS number Not applicable B30273 **Product code** 

Recommended use GENERAL PURPOSE CLEANER

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)

# 2. Hazard identification

**Physical hazards** Corrosive to metals Category 1 **Health hazards** Acute toxicity, oral Category 4 Skin irritation Category 2

Not classified.

Serious eye irritation Category 2

**Environmental hazards** 

Label elements



Signal word Warning

May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye **Hazard statement** 

irritation.

**Precautionary statement** 

Prevention Keep only in original packaging. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Wear eye protection/face protection. Wear protective gloves.

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IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Response

Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. 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. Take off contaminated

clothing and wash it before reuse. Absorb spillage to prevent material-damage.

Storage Store in a corrosion resistant container with a resistant inner liner.

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

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	%
ISOPROPANOLAMINE		78-96-6	5 - 10
MONOETHANOLAMINE		141-43-5	5 - 10
NONYLPHENOXYPOLYETHOXYI THANOL		127087-87-0	5 - 10
TRIETHANOLAMINE		102-71-6	5 - 10
TRIAZINETRIETHANOL		4719-04-4	1 - 5
Other components below reportable	e 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.

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

redness, swelling, and blurred vision. Skin irritation.

contaminated clothing before reuse.

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. 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

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

you feel unwell.

Most important

symptoms/effects, acute and

delayed

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

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

Specific methods

Move containers from fire area if you can do so without risk.

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

event of fire and/or explosion do not breathe fumes.

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#### 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. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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. 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

### US. ACGIH Threshold Limit Values

03. ACGIN THIESHOU LIHIIL VAIUES	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	al Health & Safety Code, Scl	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. (O		s for Chemical Substances, Occupation

# Safety Regulation 296/97, as amended)

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

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

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

#### 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	

### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

	Туре	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 ma/m3	

### **Biological limit values**

# 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. Provide eyewash station and safety shower.

#### 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

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

recommended.

Skin protection

Hand protection Nitrile gloves are recommended.

Other Wear appropriate chemical resistant clothing.

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

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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

SDS Canada

Not available. Odor threshold

10.0 Ha

Melting point/freezing point < 30 °F (< -1.1 °C) Initial boiling point and boiling > 212 °F (> 100 °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.

(%)

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

Solubility(ies)

100 % Water Miscible Solubility (water)

Partition coefficient

Not available.

(n-octanol/water)

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

Other information

Not explosive. **Explosive properties Oxidizing properties** Not oxidizing 9.1 @ 1% pH in aqueous solution Specific gravity 1.087 **VOC ASTM D2369** 21 %

#### 10. Stability and reactivity

Reactivity May be corrosive to metals.

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

Possibility of hazardous

Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

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.

Aluminum. Acids. Oxidizing agents.

Hazardous decomposition

products

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

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Not classified.

Causes skin irritation. Skin contact Eye contact Causes eye irritation. Ingestion Harmful if swallowed.

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.

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# Information on toxicological effects

Acute toxicity

**Test Results** Components **Species** 

ISOPROPANOLAMINE (CAS 78-96-6)

**Acute** Oral Liquid

LD50 Rat 2813 mg/kg

NONYLPHENOXYPOLYETHOXYETHANOL (CAS 127087-87-0)

**Acute Dermal** Liquid

LD50 Rabbit 2573 mg/kg

Oral Liquid

LD50 Rat 3980 mg/kg

TRIAZINETRIETHANOL (CAS 4719-04-4)

**Acute Dermal** Liauid

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

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.

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

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

3 Not classifiable as to carcinogenicity to humans. TRIETHANOLAMINE (CAS 102-71-6)

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 -Not classified.

repeated exposure

Material name: CIMCLEAN® OAK® KLEEN 340 SDS Canada 

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Not classified.

The classification for health and environmental hazards is derived by a combination of calculation **Further information** 

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
ISOPROPANOLAMINE (CA	S 78-96-6)		
Aquatic			
Fish	LC50	Goldfish (Carassius auratus)	210 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia	109 mg/l, 48 hours
MONOETHANOLAMINE (CA	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
NONYLPHENOXYPOLYETH	HOXYETHANOL (	(CAS 127087-87-0)	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	1.6 - 10 mg/l, 48 h
Fish	LC50	Fathead minnow (Pimephales promelas)	1.2 - 9.3 mg/l, 96 h
TRIAZINETRIETHANOL (CA	AS 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
sistence and degradability	No data is ava	ilable on the degradability of any ingredier	nts in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

**ISOPROPANOLAMINE** -0.93MONOETHANOLAMINE -1.31**TRIAZINETRIETHANOL** -2 **TRIETHANOLAMINE** -2.3

**Bioconcentration factor (BCF)** 

MONOETHANOLAMINE < 3.2, ESTIMATED

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

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.

Material name: CIMCLEAN® OAK® KLEEN 340 SDS Canada 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** 

**UN** number UN3267

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (MONOETHANOLAMINE) UN proper shipping name

Transport hazard class(es)

Class 8 Subsidiary risk Packing group Ш **Environmental hazards** D

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

IATA

**UN** number UN3267

Corrosive liquid, basic, organic, n.o.s. (MONOETHANOLAMINE) **UN** proper shipping name

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **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

Cargo aircraft only

Allowed with restrictions. Allowed with restrictions.

**IMDG** 

**UN** number UN3267

**UN** proper shipping name

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (MONOETHANOLAMINE)

Transport hazard class(es)

8 Class Subsidiary risk Packing group Ш

**Environmental hazards** 

Marine pollutant NO F-A, S-B **EmS** 

Special precautions for user 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.

Material name: CIMCLEAN® OAK® KLEEN 340

SDS Canada

### **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
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)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>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** 08-12-2019

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** This document has undergone significant changes and should be reviewed in its entirety.

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