

# SAFETY DATA SHEET

# 1. Identification

Product identifier	CIMCLEAN <sup>®</sup> 30	
	INDUSTRIAL CLEANER	
Other means of identification		
SDS number	Not applicable	
Recommended use	INDUSTRIAL 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	1-703-527-3887 (CHEMTREC)

# number (outside USA) 2. Hazard(s) identification

Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin irritation	Category 2
	Serious eye irritation	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	May be corrosive to metals. Causes skin irritation. Causes serious eye irritation.
Precautionary statement	
Prevention	Keep only in original container. Wash thoroughly after handling. Wear eye protection/face protective gloves.
Response	If on skin: 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 before reuse. Absorb spillage to prevent material damage.
Storage	Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Use in manufacturing processes only.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
ETHYLENEDIAMINE-TETRAACETI C ACID, TETRASODIUM SALT		64-02-8	5 - 10
MONOETHANOLAMINE		141-43-5	5 - 10
TRIAZINETRIETHANOL		4719-04-4	3 - 5
TRIS[(2-HYDROXYETHYL)AMM IUM] ORTHOBORATE	ON	68797-44-4	3 - 5
NONANOIC (PELARGONIC) AC	ID	112-05-0	1 - 3
NONYLPHENOXYPOLYETHOX THANOL	YE	127087-87-0	1 - 3
Other components below reportable levels			70 - 80

The exact percentages of hazardous ingredients have been withheld as a trade secret.

#### 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.
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	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	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 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	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. 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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
. ,		3 ppm	
US. NIOSH: Pocket Guide	to Chemical Hazards		
	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
US. ACGIH Threshold Lim			
	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
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. Provide eyewash station and safety shower.		
ndividual protection measures	s, such as personal protective equipn	nent	
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	Nitrile gloves are recommended.		
Other	Wear appropriate chemical resistant	clothing.	
Respiratory protection	In case of insufficient ventilation, we	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	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.

# 9. Physical and chemical properties

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Appearance	CLEAR
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	CHEMICAL
Odor threshold	Not available.
рН	12.1
Melting point/freezing point	< 32 °F (< 0 °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 expl	osive 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	Not available.
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	10.5 @ 2%
Specific gravity	1.086
VOC ASTM D2369	22 %
10. Stability and reactivity	

### 10. Stability and reactivity

Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive to metals.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Aluminum. Acids. Oxidizing agents.

Products	Smoke, tumes, oxides of hitrogen, and oxides of carbon			
11. Toxicological informa	tion			
Information on likely routes of				
Inhalation	Not classified.			
Skin contact	Causes skin irritation.			
Eye contact	Causes eye irritation.			
Ingestion	Not classified.			
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 ef	fects			
Acute toxicity				
Product	Species	Test Results		
CIMCLEAN® 30				
<u>Acute</u> Oral Liquid				
LD50	Rat	> 5000 mg/kg		
Components	Species	Test Results		
ETHYLENEDIAMINE-TETRAACE	ETIC ACID, TETRASODIUM SALT (CAS 64-02-8)			
<u>Acute</u> Dermal Solid LD50	Rabbit	> 5000 mg/kg ATE		
MONOETHANOLAMINE (CAS 14	41-43-5)			
<u>Acute</u> Dermal				
LD50	Rabbit	1025 mg/kg		
NONANOIC (PELARGONIC) AC	ID (CAS 112-05-0)			
Acute Dermal Liquid				
LD50	Rat	> 2000 mg/kg		
<b>Oral</b> <i>Liquid</i> LD50	Rat	> 2000 mg/kg		
NONYLPHENOXYPOLYETHOXY	YETHANOL (CAS 127087-87-0)			
<u>Acute</u> Dermal Liquid LD50 Oral	Rabbit	2573 mg/kg		
Liquid	Pot	2020		
	Rat	3980 mg/kg		
TRIAZINETRIETHANOL (CAS 47	(19-04-4)			
<u>Acute</u> Dermal Liquid				
LD50	Rat	4000 mg/kg		

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

Hazardous decomposition

Components	Species		Test Results	
Oral				
Liquid				
LD50	Rat		1000 mg/kg	
TRIS[(2-HYDROXYETHYL)AMM	ONIUM] ORTHO	BORATE (CAS 68797-44-4)		
Acute				
Dermal				
Liquid				
LD50	Rabbit		> 2504 mg/kg ATE	
Oral				
Liquid	-			
LD50	Rat > 1515 mg/kg ATE		> 1515 mg/kg ATE	
Skin corrosion/irritation	Causes skin irritation.			
Serious eye damage/eye irritation	Causes eye irritation.			
Respiratory or skin sensitizatio				
Respiratory sensitization	Not a respirat	Not a respiratory sensitizer.		
Skin sensitization		This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	mutagenic or	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product	s not considered to be a carcinogen by	IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall	Evaluation of 0	Carcinogenicity		
Not listed. OSHA Specifically Regulate Not regulated.				
US. National Toxicology Pr Not listed.	ogram (NTP) R	eport on Carcinogens		
Reproductive toxicity	This product	s not expected to cause reproductive of	n developmental effects	
Specific target organ toxicity -	Not classified	This product is not expected to cause reproductive or developmental effects.		
single exposure				
Specific target organ toxicity - repeated exposure	Not classified	Not classified.		
Aspiration hazard	Not an aspira	Not an aspiration hazard.		
Chronic effects	Not classified	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	n			
Ecotoxicity		bstance which causes risk of hazardou	is effects to the environment.	
Components		Species	Test Results	
		TETRASODIUM SALT (CAS 64-02-8)		
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours	
MONOETHANOLAMINE (CA		g (p		
Aquatic	(0 141 40 0)			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	114 - 196 mg/l, 96 hours	
Acute		-		
Crustacea	EC50	Daphnia	65 mg/l, 48 hours ECHA	
NONANOIC (PELARGONIC)	ACID (CAS 112	2-05-0)		
Aquatic				
Acute				
Crustacea	EC50	Daphnia	96 mg/l, 48 hours	

Components		Species	Test Results	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	91 mg/l, 96 hours	
NONYLPHENOXYPOLYET	HOXYETHAN	OL (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	
ersistence and degradability	No data is	available on the degradability of any ingredie	nts in the mixture.	
oaccumulative potential				
Partition coefficient n-octa	nol / water (l	og Kow)		
MONOETHANOLAMINE		-1.31		
NONANOIC (PELARGONIC	) ACID	3.42		
TRIAZINETRIETHANOL TRIS[(2-HYDROXYETHYL)/		-2 ORTHOBORATE -4.37, @ 25°C pH7		
Bioconcentration factor (B	_			
MONOETHANOLAMINE		< 3.2, ESTIMATED		
obility in soil	This produ	This product is miscible in water.		
her adverse effects		adverse environmental effects (e.g. ozone depl endocrine disruption, global warming potential)		
3. Disposal consideratio	ons			
sposal 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.		
cal disposal regulations	Dispose in	Dispose in accordance with all applicable regulations.		
zardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
aste from residues / unused oducts	product re	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).		
ontaminated packaging	Since emptied containers may retain product residue, follow label warnings even after contain emptied. Empty containers should be taken to an approved waste handling site for recycling o disposal.			
4. Transport information	ı			
DT				
UN number	UN3267			
UN proper shipping name Transport hazard class(es)	Corrosive	liquid, basic, organic, n.o.s. (MONOETHANOL	AMINE)	
	, ,			

Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Environmental hazards	
Marine pollutant	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241

Supplemental Information: This Product Concentrate is corrosive only to Aluminum. Per 49CFR 173.154(d)(1) Except for a hazardous substance, a hazardous waste, or a marine pollutant, a material classed as Class 8 Packing Group III, solely because of its corrosive effect on aluminum - is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in packaging that will not react or be degraded by the corrosive material.

#### ΙΑΤΑ

UN number	UN3267
UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (MONOETHANOLAMINE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	8L
	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)
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 Annex II of MARPOL 73/78 and the IBC Code	Not established.
DOT	



IATA; IMDG



### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. It may be reportable under the provisions of SARA Sections 311 and 312 if specific threshold criteria are met or exceeded.

TSCA Section 12(b) Export	Notification (40 CFR 707, Sub	of D)	
Not regulated.		557	
TSCA Chemical Action Plan	s, Chemicals of Concern		
NONYLPHENOXYPOLYI 127087-87-0)	ETHOXYETHANOL (CAS	Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) A Plan	Action
<b>CERCLA Hazardous Substa</b>	nce List (40 CFR 302.4)		
Not listed. SARA 304 Emergency relea	se notification		
Not regulated.			
OSHA Specifically Regulate Not regulated.	d Substances (29 CFR 1910.1	001-1052)	
Superfund Amendments and Re	authorization Act of 1986 (SA	RA)	
SARA 302 Extremely hazaro Not listed.	lous substance		
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Corrosive to metal Skin corrosion or irritation Serious eye damage or eye ir	ritation	
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants	s (HAPs) List	
Not regulated. Clean Air Act (CAA) Section Not regulated.	112(r) Accidental Release Pr	evention (40 CFR 68.130)	
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations California South Coast Air Quality Management District (SCAQMD) Rule 1144 (VOC Emissions)		California's South Coast Air Quality Management District Ru working Fluids, Vanishing Oils and Rust Inhibitors).	ıle 1144
California Proposition 65			
WARNING: This product car		ding Diethanolamine, which is known to the State ion go to www.P65Warnings.ca.gov.	
California Proposition 6	5 - CRT: Listed date/Carcinog	jenic substance	
Diethanolamine (CAS US. California. Candida subd. (a))		Listed: June 22, 2012 umer Products Regulations (Cal. Code Regs, tit. 22, 695	502.3,
Diethanolamine (CAS	S 111-42-2)		
International Inventories			
Country(s) or region	Inventory name	On inventory or exemp	ot (yes/no)*
Australia	Australian Inventory of Chemi		Yes
Canada	Domestic Substances List (DS	SL)	Yes
Canada	Non-Domestic Substances Lis	st (NDSL)	No
China	Inventory of Existing Chemica	I Substances in China (IECSC)	Yes
Europe	European Inventory of Existin Substances (EINECS)	g Commercial Chemical	No
Europe	European List of Notified Che	mical 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 Chemi (PICCS)	cals and Chemical Substances	Yes

Country(s) or region Inventory name On inventory or exempt (yes/no)\* United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

# 16. Other information, including date of preparation or last revision

Issue date	02-11-2015
Revision date	03-06-2019
Version #	09
NFPA ratings	Health: 1 Flammability: 0 Instability: 0
NFPA ratings	
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.
<b>Revision information</b>	This document has undergone significant changes and should be reviewed in its entirety.

Yes