SAFETY DATA SHEET



1. Identification

Product identifier CIMTECH® 495

METALWORKING FLUID

Other means of identification

SDS number Not applicable

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)

2. Hazard(s) identification

Physical hazards Not classified.

Category 2 **Health hazards** Skin irritation

> Serious eye irritation Category 2

Environmental hazards Not classified. Not classified. **OSHA** defined hazards

Label elements



Signal word Warning

Hazard statement Causes skin irritation. Causes serious eye irritation.

Precautionary statement

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

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Response

Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Storage Store away from incompatible materials.

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.

> 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

Material name: CIMTECH® 495 SDS US

Chemical name	Common name and synonyms	CAS number	%
TRIETHANOLAMINE		102-71-6	5 - 10
TRIS[(2-HYDROXYETHYL)AMMO IUM] ORTHOBORATE	N	68797-44-4	3 - 5
MONOETHANOLAMINE		141-43-5	1 - 3
NONANOIC (PELARGONIC) ACID		112-05-0	1 - 3
TRIAZINETRIETHANOL		4719-04-4	1 - 3
Other components below reportable	e levels		80 - 90

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.

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

you feel unwell.

Most important symptoms/effects, acute and

delaved

Direct contact with eves 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

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing measures that Suitable extinguishing media

are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing

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.

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.

Material name: CIMTECH® 495 SDS US **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

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.

contamination.

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. 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)

	Type	, 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 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		

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.

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

considerations

Odor threshold

Nitrile gloves are recommended. Hand protection

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

When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. Always observe General hygiene

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.

Not available.

9. Physical and chemical properties

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

SDS US Material name: CIMTECH® 495

8.4 pН

Melting point/freezing point < 12 °F (< -11.1 °C) Initial boiling point and boiling > 212 °F (> 100 °C)

range

Flash point Not Applicable

Like water when diluted **Evaporation rate**

Not applicable. Flammability (solid, gas) 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 Not available. Relative density

Solubility(ies)

100 % Water Miscible Solubility (water)

Partition coefficient (n-octanol/water)

Not available.

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

Other information

Explosive properties Not explosive. Not oxidizing. Oxidizing properties pH in aqueous solution 8.3 @ 5% Specific gravity 1.066 **VOC ASTM D2369** 12 %

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.

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

incompatible materials.

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

Acids. Oxidizing agents.

Hazardous decomposition

products

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

11. Toxicological information

Information on likely routes of exposure

Not classified. Inhalation

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

Not classified. Ingestion

Issue date: 09-11-2014

Symptoms related to the physical, chemical and toxicological characteristics

Version #: 04

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

redness, swelling, and blurred vision. Skin irritation.

Information on toxicological effects

SDS US Material name: CIMTECH® 495

Acute toxicity

Components Species Test Results

MONOETHANOLAMINE (CAS 141-43-5)

<u>Acute</u>

Dermal

LD50 Rabbit 1025 mg/kg

NONANOIC (PELARGONIC) ACID (CAS 112-05-0)

Acute Dermal

Liquid

LD50 Rat > 2000 mg/kg

Oral

Liquid

LD50 Rat > 2000 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)

<u>Acute</u>

Dermal *Liquid*

LD50 Rabbit > 2000 mg/kg

Oral *Liquid*

LD50 Rat 4190 mg/kg

TRIS[(2-HYDROXYETHYL)AMMONIUM] ORTHOBORATE (CAS 68797-44-4)

<u>Acute</u>

Dermal

Liquid

LD50 Rabbit > 2504 mg/kg ATE

Oral

Liquid

LD50 Rat > 1515 mg/kg ATE

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

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo 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.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Material name: CIMTECH® 495

Reproductive toxicityThis 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 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

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			
MONOETHANOLAMINE (CAS 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			
NONANOIC (PELARG	ONIC) ACID (CAS	112-05-0)				
Aquatic						
Acute						
Crustacea	EC50	Daphnia	96 mg/l, 48 hours			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	91 mg/l, 96 hours			
TRIAZINETRIETHANO	DL (CAS 4719-04-4	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

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

MONOETHANOLAMINE -1.31
NONANOIC (PELARGONIC) ACID 3.42
TRIAZINETRIETHANOL -2
TRIETHANOLAMINE -2.3

Bioconcentration factor (BCF)

MONOETHANOLAMINE < 3.2, ESTIMATED

Mobility in soil No data available.

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 instructionsCollect 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 codeThe waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Material name: CIMTECH® 495 SDS US

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 er

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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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

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, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California South Coast Air Quality Management District (SCAQMD) Rule 1144 (VOC Emissions) This product is subject to SCAQMD Rule 1144; it is compliant and may be sold and used in the SCAQMD. The VOC content of the product is 124 g/L, measured by ASTM Method E-1868-10. This product has a specified use dilution VOC limit of 75 g/L, the maximum dilution concentration

is 60 % to maintain compliance.

California Proposition 65

WARNING: This product can expose you to chemicals including Diethanolamine, which is known to the State

of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

Material name: CIMTECH® 495 SDS US

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Diethanolamine (CAS 111-42-2)

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 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
 09-11-2014

 Revision date
 08-29-2018

Version # 04

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

8/8

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: CIMTECH® 495 SDS US