# SAFETY DATA SHEET



## 1. Identification

**Product identifier** CIMTECH® 46C

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

Serious eve irritation

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

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 container. Wash thoroughly after handling. Do not eat, drink or smoke when

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

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with Response

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

Category 2A

wash before reuse. Absorb spillage to prevent material damage.

Store in corrosive resistant container with a resistant inner liner. **Storage** 

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

Hazard(s) not otherwise

classified (HNOC)

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.

Material name: CIMTECH® 46C

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
TRIETHANOLAMINE		102-71-6	10 - 20
AMINOMETHYLPROPANOL		124-68-5	5 - 10
BENZOTRIAZOLE		95-14-7	5 - 10
NEODECANOIC ACID		26896-20-8	3 - 5
NONANOIC (PELARGONIC) ACID		112-05-0	1 - 3
Other components below reportable	levels		60 - 70

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has 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.

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

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. Alcohol resistant 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

Wear suitable protective equipment.

and precautions for firefighters Fire fighting

equipment/instructions

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

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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 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.

**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. 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 original tightly closed container. Keep only in the original container. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS). If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

## 8. Exposure controls/personal protection

## Occupational exposure limits

### **US. ACGIH Threshold Limit Values**

OO. AOOM THICSHOID EMINE VALUES	Туре	Value
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. Eye wash fountain and emergency showers are recommended.

## Individual protection measures, such as personal protective equipment

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** Use protective gloves made of: Nitrile.

Other Wear appropriate chemical resistant 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 10.3

Material name: CIMTECH® 46C SDS US

< 22 °F (< -5.6 °C) Melting point/freezing point 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

(%) Flammability limit - upper

(%)

Not available. Not available.

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

Not available. Vapor pressure Vapor density Not available. Not available. Relative density

100 % Water Miscible Solubility(ies)

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

Not available.

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

Other information

**Explosive properties** Not explosive. Not oxidizing. Oxidizing properties 9.1 @ 5% pH in aqueous solution Specific gravity 1.082 **VOC ASTM D2369** 4 %

## 10. Stability and reactivity

Reactivity May be corrosive to metals.

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

reactions

Heat, flames and sparks. Contact with incompatible materials. Conditions to avoid

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

may form cancer causing nitrosamines.

**Hazardous decomposition** 

products

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

## 11. Toxicological information

## Information on likely routes of exposure

Not classified. Inhalation

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

Information on toxicological effects

Harmful if swallowed. **Acute toxicity** 

Material name: CIMTECH® 46C SDS US

**Test Results** Components **Species** AMINOMETHYLPROPANOL (CAS 124-68-5) **Acute** Dermal Liquid LD50 Rabbit > 2000 mg/kg Oral Liquid LD50 Rat 2900 mg/kg BENZOTRIAZOLE (CAS 95-14-7) **Acute** Inhalation Mist LC50 Rat 1910 mg/m3, 3 hours LD50 Rat 1.9 mg/l Oral Liquid LC50 Rat 560 mg/kg LD50 615 mg/kg Mouse Rat 600 mg/kg NEODECANOIC ACID (CAS 26896-20-8) **Acute Dermal** Liquid LD50 Rabbit > 3640 mg/kg Inhalation Vapor LC50 Rat > 3 mg/l Oral Liquid LD50 Rat 2066 mg/kg NONANOIC (PELARGONIC) ACID (CAS 112-05-0) **Acute Dermal** Liquid LD50 Rat > 2000 mg/kg Oral Liquid LD50 Rat > 2000 mg/kg TRIETHANOLAMINE (CAS 102-71-6) **Acute Dermal** Liquid LD50 Rabbit > 2000 mg/kg Oral

Rat

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses eye irritation.

irritation

Liquid LD50

Material name: CIMTECH® 46C SDS US

4190 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Respiratory or skin sensitization

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.

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

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 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Not classified.

**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

cotoxicity	Contains	Contains a substance which causes risk of hazardous effects to the environment.			
Components		Species	Test Results		
AMINOMETHYLPRO	PANOL (CAS 124-6	68-5)			
Aquatic					
Acute					
Crustacea	EC50	Daphnia	193 mg/l, 48 hours		
Fish	LC50	Bluegill (Lepomis macrochirus)	190 mg/l, 96 hours		
BENZOTRIAZOLE (C	AS 95-14-7)				
Aquatic					
Acute					
Fish	LC50	Bluegill (Lepomis macrochirus)	28 mg/l, 96 hours		
NEODECANOIC ACII	D (CAS 26896-20-8	)			
Aquatic					
Acute					
Crustacea	EC50	Daphnia	50 - 1000 mg/l, 48 hours		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	100 - 300 mg/l, 96 hours		
NONANOIC (PELAR	GONIC) 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		

EC50

LC50

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Water flea (Ceriodaphnia dubia)

Bluegill (Lepomis macrochirus)

565.2 - 658.3 mg/l, 48 hours

450 - 1000 mg/l, 96 hours

**Aquatic** Crustacea

Acute Fish

TRIETHANOLAMINE (CAS 102-71-6)

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

## Persistence and degradability

## Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

**BENZOTRIAZOLE** 1.44 NONANOIC (PELARGONIC) ACID 3.42 **TRIETHANOLAMINE** -2.3

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

**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.

Dispose in accordance with all applicable regulations. Local disposal 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).

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

### DOT

UN3267 **UN** number

**UN proper shipping name** 

Transport hazard class(es)

Corrosive liquid, basic, organic, n.o.s. (AMINOMETHYLPROPANOL, TRIETHANOLAMINE)

8 Class Subsidiary risk Label(s) 8 Ш Packing group

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

IB3, T7, TP1, TP28 **Special provisions** 

154 Packaging exceptions 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.

## **IATA**

**UN** number UN3267

**UN** proper shipping name

Corrosive liquid, basic, organic, n.o.s. (AMINOMETHYLPROPANOL, TRIETHANOLAMINE)

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 81

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

**IMDG** 

**UN** number UN3267

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOMETHYLPROPANOL, **UN** proper shipping name

TRIETHANOLAMINE)

Transport hazard class(es)

8 Class

Material name: CIMTECH® 46C SDS US Subsidiary risk - Packing group |||

**Environmental hazards** 

Marine pollutant No. EmS F-A, S-B

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

Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

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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, 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 1910.1001-1050)

Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

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## 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

(SDWA)

Not regulated.

Food and Drug Not regulated.

Administration (FDA)

## **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 34 g/L, measured by ASTM Method E-1868-10. This product has a specified use dilution VOC limit of 130 g/L, the maximum dilution concentration is 100 % to maintain compliance.

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### **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)	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

<sup>\*</sup>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
 01-29-2015

 Revision date
 06-13-2017

Version # 03

Further information Not available.

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.

Material name: CIMTECH® 46C SDS US