CIMCOOL® FLUID TECHNOLOGY

SAFETY DATA SHEET

1. Identification

Product identifier CIMSTAR® 3890

METALWORKING FLUID

Other means of identification

SDS number Not applicable

Recommended use METALWORKING FLUID

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.

Health hazards Serious eye irritation Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

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.

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 1.8% of the mixture consists of component(s) of unknown acute oral toxicity. 1.8% of the mixture

consists of component(s) of unknown acute dermal toxicity.

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: CIMSTAR® 3890
 SDS US

 Version #: 04
 Issue date: 10-20-2014
 Revision date: 10-28-2019
 1 / 9

Chemical name	Common name and synonyms	CAS number	%
TRIS[(2-HYDROXYETHYL)AMMON IUM] ORTHOBORATE		68797-44-4	5 - 10
SEVERELY-HYDROTREATED NAPHTHENIC DISTILLATES		64742-52-5	3 - 5
TRIAZINETRIETHANOL		4719-04-4	3 - 5
TRIETHANOLAMINE		102-71-6	3 - 5
MONOETHANOLAMINE		141-43-5	1 - 3
MONOISOPROPANOLAMINE		78-96-6	1 - 3
SODIUM ALKYLARYL SULFONATE		93820-59-8	1 - 3
Other components below reportable le	evels		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.

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. If eye Eye contact

irritation persists: Get medical advice/attention.

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

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

Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

General information

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

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

Special protective equipment and precautions for firefighters Wear suitable protective equipment.

Fire fighting

Specific methods

equipment/instructions

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.

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.

Material name: CIMSTAR® 3890 SDS US Revision date: 10-28-2019 2/9

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.

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 tightly closed container. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

U.S OSHA	T	Walter	
Components	Туре	Value	
SEVERELY-HYDROTREAT ED NAPHTHENIC DISTILLATES (CAS 64742-52-5)	PEL	5 mg/m3	
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910	1000)	
Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
ACGIH			
Components	Туре	Value	
SEVERELY-HYDROTREAT ED NAPHTHENIC DISTILLATES (CAS 64742-52-5)	TWA	5 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	

Material name: CIMSTAR® 3890 SDS US

Revision date: 10-28-2019

Biological limit values

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

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. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Do not get in eyes. Wear safety glasses with side shields (or goggles). 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, 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 9.0

Melting point/freezing point Not available.

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.

(%)

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 Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Material name: CIMSTAR® 3890

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

pH in aqueous solution 8.5 @ 5%

Version #: 04 Issue date: 10-20-2014 Revision date: 10-28-2019 4 / 9

SDS US

1.001 Specific gravity 10 % VOC ASTM D2369

10. Stability and reactivity

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

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

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. Contact with 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 Not classified.

Causes eye irritation. Eye contact

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

Components	Species	Test Results

MONOETHANOLAMINE (CAS 141-43-5)

Acute Dermal

LD50 Rabbit 1025 mg/kg

MONOISOPROPANOLAMINE (CAS 78-96-6)

Acute Dermal

Liquid

LD50 Rabbit 1576 mg/kg

Oral

Liquid

LD50 Rat 2813 mg/kg

SEVERELY-HYDROTREATED NAPHTHENIC DISTILLATES (CAS 64742-52-5)

Acute

Dermal

Liquid

LD50 Rabbit > 5000 mg/kg

Inhalation

Mist

LC50 Rat > 5.1 mg/l, 4 hours ATE

Oral

Liquid

LD50 Rat > 5000 mg/kg

5/9 Version #: 04 Issue date: 10-20-2014 Revision date: 10-28-2019

Material name: CIMSTAR® 3890 SDS US Components **Species Test Results**

SODIUM ALKYLARYL SULFONATE (CAS 93820-59-8)

Acute **Dermal**

Solid

LD50 Rabbit 2000 mg/kg

Oral Solid

LD50 Rat 1080 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

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

Acute Dermal

Liquid

LD50 Rabbit > 2504 mg/kg ATE

Oral Liquid

LD50 Rat > 1515 mg/kg ATE

Not classified. Skin corrosion/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.

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

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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: CIMSTAR® 3890 SDS US Revision date: 10-28-2019

Not an aspiration hazard. **Aspiration hazard**

Not classified. **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

Contains a substance which causes risk of hazardous effects to the environment. **Ecotoxicity**

Components		Species	Test Results
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
MONOISOPROPANOLAMIN	NE (CAS 78-96	5-6)	
Aquatic			
Fish	LC50	Goldfish (Carassius auratus)	210 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia	109 mg/l, 48 hours
SODIUM ALKYLARYL SULF	ONATE (CAS	93820-59-8)	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	2.9 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	1.67 mg/l, 96 hours
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 :	available on the degradability of any ingre	edients in the mixture

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 -0.93 MONOISOPROPANOLAMINE -2 TRIAZINETRIETHANOL **TRIETHANOLAMINE** -2.3

TRIS[(2-HYDROXYETHYL)AMMONIUM] ORTHOBORATE -4.37, @ 25°C pH7

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

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: CIMSTAR® 3890 SDS US Revision date: 10-28-2019

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

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.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

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 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Chemical Weapons (Prohibition) Act

TRIETHANOLAMINE

Other federal regulations

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

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

Not regulated.

Safe Drinking Water Act

(SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

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 44 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 100 % to maintain compliance.

Material name: CIMSTAR® 3890 SDS US 8/9 Revision date: 10-28-2019

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

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

Diethanolamine (CAS 111-42-2)

SEVERELY-HYDROTREATED NAPHTHENIC DISTILLATES (CAS 64742-52-5)

International Inventories

Country(s) or region	Inventory name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

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

10-20-2014 Issue date 10-28-2019 Revision date

Version #

United States & Puerto Rico

NFPA ratings Health: 1

Flammability: 0 Instability: 0

NFPA ratings



The information provided in this Safety Data Sheet is correct to the best of our knowledge, Disclaimer

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

Yes

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: CIMSTAR® 3890 SDS US 9/9 Revision date: 10-28-2019