# SAFETY DATA SHEET



1. Identification **Product identifier** 

MILFORM® 1200

STAMPING AND DRAWING FLUID

Other means of identification

SDS number Not applicable

STAMPING AND DRAWING FLUID Recommended use

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

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** Skin corrosion/irritation

> Serious eye damage/eye irritation Category 2

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

Label elements



Warning Signal word

**Hazard statement** Causes skin irritation. Causes serious eye irritation.

**Precautionary statement** 

Prevention Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing

Category 2

should not be allowed out of the workplace. Avoid release to the environment.

Response IF ON SKIN: Wash with plenty of water. If skin irritation or rash 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. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. Take off contaminated clothing and

wash it before reuse.

**Storage** Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place. Store away

from incompatible materials. Store in accordance with local/regional/national/international

regulation.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

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## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
MONOETHANOLAMINE		141-43-5	1 - 5
TRIETHANOLAMINE		102-71-6	1 - 5
NEODECANOIC ACID		26896-20-8	0.5 - 1.5
TOLYLTRIAZOLE, SODIUM SALT		64665-57-2	0.5 - 1.5
Other components below reportable lev	els		60 - 100

<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 If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing Skin contact

and shoes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing

before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin.

Rinse mouth thoroughly. Do not induce vomiting. Drink 1 or 2 glasses of water. If vomiting occurs, Ingestion

keep head low so that stomach content doesn't get into the lungs. Call a POISON CENTER or

Skin irritation. Direct contact with eyes may cause temporary irritation. Symptoms may include

doctor/physician if 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

Specific hazards arising from

Not applicable, non-combustible.

the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

During fire, gases hazardous to health may be formed.

Wear suitable protective equipment.

Use standard firefighting procedures and consider the hazards of other involved materials. 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. Move container from fire area if it can be done without risk.

No unusual fire or explosion hazards noted. General fire hazards

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapor. 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.

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations. 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. Do not flush spill to drain. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination. Contact local authorities in case of spillage to drain/aquatic environment.

## 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 ingest. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material on clothing. Avoid contact with skin and eyes. Avoid prolonged and repeated contact. Use only in well-ventilated areas. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Practice good housekeeping. Handle and open container with care. Do not empty into drains.

#### Conditions for safe storage, including any incompatibilities

To maintain product quality, do not store in heat or direct sunlight. Use care in handling/storage. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep this material away from food, drink and animal feed. Room temperature normal conditions. Do not allow material to freeze. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

Value

### 8. Exposure controls/personal protection

#### Occupational exposure limits

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

Type

	туре	value	
MONOETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
US. NIOSH: Pocket Guide to Cher	nical 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	
TRIETHANOLÁMINE (CAS 102-71-6)	TWA	5 mg/m3	
MONOETHANOLAMINE (CAS 141-43-5)	TWA	3 ppm	

#### Appropriate engineering controls

Ensure compliance with applicable exposure limits. 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.

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Skin protection

Use protective gloves made of: Nitrile. Hand protection

Other Wear suitable protective clothing and gloves.

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

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

**CLEAR Appearance** Physical state Liquid. **Form** Liquid.

Not available. Color CHEMICAL Odor **Odor threshold** Not available.

8.9 Ηq

Melting point/freezing point < 32 °F (< 0 °C) estimated

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 explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

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

100 % Water Miscible Solubility(ies)

Partition coefficient

(n-octanol/water)

Relative density

Not available.

Not available.

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

Other information

pH in aqueous solution 8.7 @ 25% 1.03 Specific gravity **VOC ASTM D2369** 3 %

## 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. Hazardous polymerization does not

occur.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Acids. Avoid contact with oxidizers or reducing agents. Do not add sodium nitrite or other

nitrosating agents which may form cancer causing nitrosamines.

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

products

### 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Health injuries are not known or expected under normal

Skin contact Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to

discomfort and dermatitis.

Causes serious eye irritation. Direct contact with eyes may cause temporary irritation. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Skin irritation. Direct contact with eyes may cause temporary irritation. Symptoms may include

stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin.

Information on toxicological effects

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

**Test Results Species** Components MONOETHANOLAMINE (CAS 141-43-5) Acute Dermal LD50 Rabbit 1025 mg/kg Oral LD50 Guinea pig 620 mg/kg Mouse 700 mg/kg Rat 10.2 g/kg NEODECANOIC ACID (CAS 26896-20-8) Acute Dermal LD50 Rabbit > 3640 mg/kg Inhalation LC50 Rat > 3 mg/l > 511 mg/m<sup>3</sup> LD50 Rat Oral LD50 Rat 2066 mg/kg TRIETHANOLAMINE (CAS 102-71-6) Acute Dermal LD50 Rabbit > 2000 mg/kg Oral

Guinea pig

Rat

Skin corrosion/irritation Causes skin irritation. Prolonged skin contact may cause temporary irritation. Defatting, drying and

cracking of skin.

Serious eye damage/eye

LD50

irritation

Causes serious eye irritation. Direct contact with eyes may cause temporary irritation.

5300 mg/kg

8 g/kg

Respiratory or skin sensitization

Respiratory sensitization Not classified. Skin sensitization Not classified.

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

mutagenic or genotoxic.

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

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

IARC Monographs. Overall Evaluation of Carcinogenicity

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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 -

Not classified.

repeated exposure

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged exposure may cause chronic effects.

**Further information** Symptoms may be delayed.

## 12. Ecological information

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

	Species	Test Results	
NE (CAS 141-43-5)			
LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	114 - 196 mg/l, 96 hours	
) (CAS 26896-20-8)			
EC50	Daphnia	50 - 1000 mg/l, 48 hours	
LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	100 - 300 mg/l, 96 hours	
(CAS 102-71-6)			
EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours	
LC50	Fathead minnow (Pimephales promelas)	10610 - 13010 mg/l, 96 hours	
	LC50  C(CAS 26896-20-8)  EC50  LC50  (CAS 102-71-6)  EC50	LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss)  (CAS 26896-20-8)  EC50 Daphnia LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss)  (CAS 102-71-6)  EC50 Water flea (Ceriodaphnia dubia)	

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

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

MONOETHANOLAMINE -1.31 TRIETHANOLAMINE -1

**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**Consult authorities before disposal. Do not contaminate ponds, waterways or ditches with

chemical or used container. Dispose of 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.

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** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

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### 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 Annex II of MARPOL 73/78 and

Not established.

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)** 

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

Yes

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)

**Food and Drug** 

**US** state regulations

Not regulated.

Administration (FDA)

and may be reportable under the provisions of SARA Sections 311 and 312.

Product is a hazardous substance as defined under the OSHA Hazard Communication Standard

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. Massachusetts RTK - Substance List

MONOETHANOLAMINE (CAS 141-43-5) TRIETHANOLAMINE (CAS 102-71-6)

US. New Jersey Worker and Community Right-to-Know Act

MONOETHANOLAMINE (CAS 141-43-5) TRIETHANOLAMINE (CAS 102-71-6)

US. Pennsylvania Worker and Community Right-to-Know Law

MONOETHANOLAMINE (CAS 141-43-5) TRIETHANOLAMINE (CAS 102-71-6)

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#### **US. Rhode Island RTK**

Not regulated.

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 6 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.

#### **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.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

NITRILOTRIACETIC ACID (CAS 139-13-9) Listed: January 1, 1988

#### **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)	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)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
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** 08-03-2015

Version # 01

Further information Not available.

**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** Product and Company Identification: Product and Company Identification

Hazards Identification: US Hazard Categories Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Transport Information: Proper Shipping Name/Packing Group

Regulatory Information: United States

Material Attributes & Uses; Experimental Data: Experimental Data

HazReg Data: North America

GHS: Classification

Material name: MILFORM® 1200 SDS US