



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** TRIM® 9106  
**Other means of identification** None.  
**Recommended use** Metal Working Fluids.  
**Recommended restrictions** Applicable for industrial settings only. No other uses are advised.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company Name** Master Fluid Solutions  
**Address** 501 West Boundary  
Perrysburg, Ohio 43551-1200  
United States  
**Telephone** 419-874-7902  
**Website** www.masterfluidsolutions.com  
**E-mail** info@masterchemical.com  
**Emergency phone number** CHEMTREC 1-800-424-9300

## 2. Hazard(s) identification

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

#### Label elements

**Hazard symbol** None.  
**Signal word** None.  
**Hazard statement** The mixture does not meet the criteria for classification.  
**Precautionary statement**  
**Prevention** Observe good industrial hygiene practices.  
**Response** Wash hands after handling.  
**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** None.

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
TRIETHANOLAMINE		102-71-6	3 - < 5
Other components below reportable levels			90 - 100

\*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.  
**Skin contact** Wash affected area with mild soap and water.  
**Eye contact** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.  
**Ingestion** In the unlikely event of swallowing contact a physician or poison control center.

**Most important symptoms/effects, acute and delayed**

None known.

**General information**

Get medical attention, if needed.

## 5. Fire-fighting measures

**Suitable extinguishing media**

Dry chemical, CO<sub>2</sub>, water spray or alcohol resistant foam. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

No unusual fire or explosion hazards noted.

**Special protective equipment and precautions for firefighters**

Wear suitable protective equipment. Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

For personal protection, see section 8 of the SDS. Keep unnecessary personnel away. Use personal protective equipment as required.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material. Clean up in accordance with all applicable regulations.

## 7. Handling and storage

**Precautions for safe handling**

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Do not taste or swallow. Wash thoroughly after handling.

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

Store in a closed container. The product is stable and non-reactive under normal conditions of use, storage and transport. Store in a dry place.

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US. ACGIH Threshold Limit Values**

**Components**

**Type**

**Value**

TRIETHANOLAMINE (CAS 102-71-6)

TWA

5 mg/m<sup>3</sup>

**Appropriate engineering controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Safety glasses.

**Skin protection**

**Hand protection**

Wear appropriate chemical resistant gloves.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations**

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

**Physical state**

Liquid.

**Color**

Clear

**Odor**

Odorless

**Odor threshold**

Not available.

**pH**

8.2 - 8.6

**Melting point/freezing point**

10.4 °F (-12 °C)

**Initial boiling point and boiling range**

208.4 °F (98 °C)

**Flash point**

> 217.4 °F (> 103.0 °C)

**Evaporation rate**

< 1 BuAc

**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)** Soluble

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other information**

**Flash point class** ASTM D92-90

**pH in aqueous solution** 8.2 - 8.4

**Specific gravity** 1.063 - 1.175

## 10. Stability and reactivity

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

**Chemical stability** Stable at normal conditions.

**Possibility of hazardous reactions** Hazardous polymerization does not occur.

**Conditions to avoid** Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines.

**Incompatible materials** Strong acids. Powerful oxidizers.

**Hazardous decomposition products** To avoid thermal decomposition, do not overheat.

## 11. Toxicological information

**Information on likely routes of exposure**

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** Not classified.

**Eye contact** Not classified.

**Ingestion** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** None known.

**Information on toxicological effects**

**Acute toxicity** Not classified.

Product	Species	Test Results
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TRIM® 9106

**Acute**

**Dermal**

LD50	Rabbit	> 2000, mg/kg
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**Inhalation**

LC50	Rat	> 227, mg/l
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Product	Species	Test Results
Oral LD50	Rat	> 5000, mg/kg
Skin corrosion/irritation	Not classified.	
Serious eye damage/eye irritation	Not classified.	
Respiratory or skin sensitization		
Respiratory sensitization	Not classified.	
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.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)		
Not regulated.		
Reproductive toxicity	This 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 classified.	
Chronic effects	None known.	
12. Ecological information		
Ecotoxicity	Not available.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
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 instructions	Dispose of contents/container in accordance with local/regional/national/international 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.	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Follow precautions for safe handling described in this safety data sheet.	
14. Transport information		
DOT	Not regulated as dangerous goods.	
IATA	Not regulated as dangerous goods.	
IMDG	Not regulated as dangerous goods.	
15. Regulatory information		
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance		
Not listed.		

**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.

**US state regulations****California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision****Issue date** 06-10-2015**Revision date** 03-14-2019**Version #** 04**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. Master Fluid Solutions cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

**Revision information**

Exposure controls/personal protection: General hygiene considerations  
Other information, including date of preparation or last revision: Disclaimer  
HazReg Data: Pacific Rim  
GHS: Classification