# TRIM

# SAFETY DATA SHEET

# 1. Identification

Product identifier TRIM® MicroSol® 455

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 NameMaster Fluid SolutionsAddress501 West Boundary StreetPerrysburg, 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 hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes skin irritation. Causes serious eye irritation.

**Precautionary statement** 

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

gloves.

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

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 it 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 None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
SEVERELY HYDROTREATED PETROLEUM OIL		64742-52-5	10 - < 20
TRADE SECRET*		Proprietary*	5 - < 10

Material name: TRIM® MicroSol® 455

Chemical name	Common name and synonyms	CAS number	%
TRADE SECRET*		Proprietary*	3 - < 5
MONOETHANOLAMINE		141-43-5	1 - < 3
TRADE SECRET*		Proprietary*	1 - < 3
TRADE SECRET*		Proprietary*	1 - < 3
TRADE SECRET*		Proprietary*	1 - < 3
Other components below reportab	le 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.

Skin contact Wash affected area with mild soap and water.

None known.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

In the unlikely event of swallowing contact a physician or poison control center. Ingestion

Most important

symptoms/effects, acute and

delayed

**General information** Get medical attention, if needed.

# 5. Fire-fighting measures

Suitable extinguishing media Dry chemical, CO2, 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

Keep unnecessary personnel away. Use personal protective equipment as required. For personal

protection, see section 8 of the SDS.

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. Wash thoroughly after

handling. Do not taste or swallow.

Conditions for safe storage, including any incompatibilities The product is stable and non-reactive under normal conditions of use, storage and transport.

Store in a dry place. Store in a closed container.

# 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.

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

Components	Туре	Value	Form
MONOETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
SEVERELY HYDROTREATED PETROLEUM OIL (CAS 64742-52-5)	PEL	5 mg/m3	Mist.

SDS US

2706 Version #: 02 Revision date: 10-12-2018 Issue date: 06-27-2018

US. ACGIH Threshold Limit Value Components	es Type	Value	Form
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
SEVERELY HYDROTREATED PETROLEUM OIL (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to Cher	mical Hazards		
Components	Туре	Value	Form
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	

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 Light yellow to amber

Odor Mild amine
Odor threshold Not available.
pH 10.1 - 10.3

Melting point/freezing point 25.34 °F (-3.7 °C) Initial boiling point and boiling 212.9 °F (100.5 °C)

range

**Flash point** 284.0 °F (140.0 °C) **Evaporation rate** Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

er Not available.

(%)

Not available.

Flammability limit - upper

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Soluble Not available. **Partition coefficient** 

(n-octanol/water)

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

Other information

ASTM D92-90 Flash point class pH in aqueous solution 8.7 - 9.70.98 - 0.99Specific gravity

# 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.

May be irritating to the skin. Skin contact Eye contact May be irritating to eyes.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May be irritating to the skin. May be irritating to eyes.

## Information on toxicological effects

**Acute toxicity** Not classified.

Skin corrosion/irritation May be irritating to the skin. May be irritating to eyes. Serious eye damage/eye

irritation

#### Respiratory or skin sensitization

Respiratory sensitization Not classified.

This product is not expected to cause skin sensitization. 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.

Material name: TRIM® MicroSol® 455 SDS US 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 - Yes

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

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

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.

#### International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

**Issue date** 06-27-2018

Material name: TRIM® MicroSol® 455

<sup>\*</sup>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).

Revision date 10-12-2018

Version # 02

**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** Fire-fighting measures: Special protective equipment and precautions for firefighters

Toxicological information: Aspiration hazard

Toxicological information: Respiratory sensitization

Toxicological information: Specific target organ toxicity - repeated exposure Toxicological information: Specific target organ toxicity - single exposure

Regulatory information: California Proposition 65

HazReg Data: International Inventories

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