TRIM

SAFETY DATA SHEET

1. Identification

Product name TRIM® MicroSol® 465

Other means of identification None.

Recommended use Metal Working Fluids.

Recommended restrictions No other uses are advised. Applicable for industrial settings only.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company NameMaster Fluid SolutionsAddress501 West Boundary

Perrysburg, Ohio 43551-1200

United States

Telephone 419-874-7902

Website www.masterfluidsolutions.com

E-mail info@masterfluids.com

Emergency phone number CHEMTREC 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

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	%
Distillates (petroleum), Hydrotreated Heavy Naphthenic		64742-52-5	10 - < 20
TRADE SECRET		Proprietary	3 - < 5

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Chemical name	Common name and synonyms	CAS number	%
Monoethanolamine		141-43-5	1 - < 3
TRADE SECRET		Proprietary	1 - < 3
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TRADE SECRET		Proprietary	1 - < 3
TRADE SECRET		Proprietary	1 - < 3
TRADE SECRET		Proprietary	1 - < 3
Other components below reportal	ole levels		60 - < 70

^{*}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.

Wash affected area with mild soap and water. Skin contact

None known.

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

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

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

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.

Fire fighting

equipment/instructions

Containers should be cooled with water to prevent vapor pressure build up.

General fire hazards 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. For personal protection, see section 8 of the SDS. 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.

Environmental precautions

Prevent entry into waterways, sewer, basements or confined areas.

7. Handling and storage

Do not taste or swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Precautions for safe handling

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. OSHA Table Z-1 Permissible	Exposure Limits (PEL) for Air	r Contaminants (29 CFR 1910.100	0)
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Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.

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

 Components
 Type
 Value
 Form

 Monoethanolamine (CAS)
 PEL
 6 mg/m3

141-43-5)

3 ppm

US. ACGIH Threshold Limit Values (TLV)

ComponentsTypeValueFormDistillates (petroleum),
Hydrotreated Heavy
Naphthenic (CAS
64742-52-5)TWA5 mg/m3Inhalable fraction.Monoethanolamine (CAS
141-43-5)STEL6 ppm

TWA 3 ppm

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Form Components **Type** Value Distillates (petroleum), **STEL** 10 mg/m3 Mist. Hydrotreated Heavy Naphthenic (CAS 64742-52-5) Monoethanolamine (CAS **STEL** 15 mg/m3 141-43-5) 6 ppm **TWA** 8 mg/m3

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

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

3 ppm

recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.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

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

Odor threshold Not available. pH 9.9 - 10.9

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range

Flash point >212.0 °F (>100.0 °C)

Evaporation rate 1 BuAc Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

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 Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Flash point class ASTM D93-08 Kinematic viscosity 44.7 cSt

Kinematic viscosity

temperature

104 °F (40 °C)

pH in aqueous solution 8.9 - 10.4 Specific gravity 0.966 - 1.006

10. Stability and reactivity

ReactivityThe 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 avoidDo 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 May be irritating to the skin.

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.

Serious eye damage/eye May be irritating to eyes.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo 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.

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

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 instructionsDispose 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.

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

US federal regulations

Toxic Substances Control Act (TSCA)

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

No

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.

US state regulations

California Proposition 65

For more information go to www.P65Warnings.ca.gov. 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.

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

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

12-18-2023 Issue date

Version #

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.

^{*}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).