

# MT-704 DIFFUSION PUMP FLUID

 Version
 Revision Date:
 CAS Number:
 Date of last issue: 7/21/2015

 1.3
 1/25/2022
 3982-82-9
 Date of first issue: 7/21/2015

**SECTION 1. IDENTIFICATION** 

Product name : MT-704 DIFFUSION PUMP FLUID

Product code : N/A

Manufacturer or supplier's details

Company name of supplier Midwest Tungsten Service

Address 540 Executive Drive

Willowbrook, IL 60527

Telephone (630) 325-1001

Emergency telephone 24 Hour Emergency Telephone : (989) 496-5900

CHEMTREC: (800) 424-9300

Recommended use of the chemical and restrictions on use

Recommended use Vacuum diffusion pump fluid

# **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Substance

Substance name Tretramethyltetraphenyl trisiloxane

CAS-No. 3982-82-9

Chemical nature Silicone compound

Hazardous ingredients
No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.



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In case of skin contact Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

In case of eve contact Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms

and effects, both acute and delayed

None known.

Protection of first-aiders

No special precautions are necessary for first aid responders.

Notes to physician

Treat symptomatically and supportively.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray

Alcohol-resistant foam Carbon dioxide (C02)

Dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucte

Exposure to combustion products may be a nazard to neatin.

Carbon oxides

Silicon oxides Formaldehyde

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

- : Follow safe handling advice and personal protective equip-

er- ment recommendations.



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gency procedures

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide diking or otiler appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

#### **SECTION 7. HANDLING AND STORAGE**

Technical measures See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Advice on safe handling Handle in accordance with good industrial hygiene and safety

practice.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage Keep in properly labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid Do not store with the following product types:

Strong oxidizing agents

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures Processing may form hazardous compounds (see section

10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.



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Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally

required.

Hand protection

Remarks Wash hands before breaks and at the end of workday.

Eye protection Wear the following personal protective equipment:

Safety glasses

Skin and body protection Skin should be washed after contact.

Hygiene measures Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may re-

quire added precautions.

For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact

the Midwest Tungsten customer service group.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance liquid

Color Clear white to yellow.

Odor none

Odor Threshold No data available

PH No data available

Melting point/freezing point

No data available

Initial boiling point and boiling

range

215 °C

Flash point 221°C

Method: open cup

Evaporation rate No data available

Flammability (solid, gas) Not applicable

Upper explosion limit No data available



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Lower explosion limit No data available

Vapor pressure 10-6 to 10-8 torr at 25°C

Relative vapor density No data available

Relative density 1.07

Solubility(ies)

Water solubility Insoluble

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature No data available

Viscosity

Viscosity, [cinematic 39 mm2/s

Explosive properties Not explosive

Oxidizing properties The substance or mixture is not classified as oxidizing.

Molecular weight 484

# SECTION 10. STABILITY AND REACTIVITY

Reactivity Not classified as a reactivity hazard.

Chemical stability Stable under normal conditions.

Possibility of hazardous reac-

tions

Use at elevated temperatures may form highly hazardous

compounds.

Can react with strong oxidizing agents.

Hazardous decomposition products will be formed at elevated

temperatures.

Conditions to avoid None known.

Incompatible materials Oxidizing agents

Hazardous decomposition products

Thermal decomposition : Formaldehyde



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#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

# Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

Not classified based on available information.

#### STOT-repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.



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#### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Resource Conservation and

Recovery Act (RCRA)

When a decision is made to discard this material as supplied,

it is classified as a RCRA hazardous waste.

Waste Code : D018

Waste from residues Dispose of in accordance with local regulations.

Contaminated packaging Dispose of as unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulation

**UNRTDG** 

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**Domestic regulation** 

49 CFR

Not regulated as a dangerous good



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#### SECTION 15. REGULATORY INFORMATION

#### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **US State Regulations**

# Pennsylvania Right To Know

Trimethylpentaphenyl trisiloxane	3982-82-9	90- 100 %
Phenyl methyl siloxane	38421-40-6	1 - 5 %

### New Jersey Right To Know

Trimethylpentaphenyl trisiloxane	3982-82-9	90- 100 %	
Phenyl methyl siloxane	38421-40-6	1 - 5 %	
Tetraphenyldimethyldisiloxane	807-28-3	1 - 5 %	

California Prop 65 This product does not contain any chemicals known to the

State of California to cause cancer, birth, or any other repro-

ductive defects.

# The ingredients of this product are reported in the following inventories:

KECI : All ingredients listed, exempt or notified.

REACH All ingredients (pre-)registered or exempt.

TSCA All chemical substances in this material are included on or

exempted from listing on the TSCA Inventory of Chemical

Substances.

AICS All ingredients listed or exempt.

IECSC All ingredients listed or exempt.

PICCS All ingredients listed or exempt.

DSL All chemical substances in this product comply with the CEPA

1999 and NSNR and are on or exempt from listing on the



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Canadian Domestic Substances List (DSL).

ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from

inventory listing.

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

#### SECTION 16. OTHER INFORMATION

#### **Further information**



#### HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

Internal technical data, data from raw material SDSs, OECD

eChem Portal search results and European Chemicals Agen-

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Sources of key data used to compile the Material Safety

Data Sheet

cy, http://echa.europa.eu/

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.



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