



SAFETY DATA SHEET
According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 084044

FLUIDMATIC CVT MV

Date of the previous version: not applicable

Revision Date: 2015-08-04

Version 1

1. IDENTIFICATIONProduct identifier

Product name FLUIDMATIC CVT MV

Other means of identification

Product Code(s) 084044

Number BX2
Substance/mixture MixtureRecommended use of the chemical and restrictions on use

Identified uses Transmission fluid.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheetSupplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

Emergency telephone number

Company Phone Number

Emergency telephone

+1 (908) 862-9300

CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATIONClassification

Skin sensitization - Category 1

Label elements

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**WARNING**

May cause an allergic skin reaction

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapours/ spray
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

Precautionary Statements - Response

Specific treatment (see .? on this label)

Skin

IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown Acute Toxicity

No information available

Hazards not otherwise classified (HNOC)

- Causes mild skin irritation

Other information

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|--|-------------|----------|
| bis(nonylphenyl)amine | 36878-20-3 | < 3 |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich | 398141-87-2 | < 3 |
| Alkyl borate | ^ | < 2 |
| Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivatives | ^ | < 2 |
| C14-18 alpha-olefin epoxide, reaction products with boric acid | ^ | < 0.3 |

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| | | |
|---|---|-------|
| 1,2-Propanediol,3-amino-,N,N-dicoco alkyl derivs. | ^ | < 0.3 |
|---|---|-------|

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

4. FIRST AID MEASURES

First aid measures for different exposure routes

| | |
|-----------------------|---|
| General advice | IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin contact | Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital. |
| Inhalation | Move to fresh air. |
| Ingestion | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. |

Most important symptoms/effects, acute and delayed

| | |
|---------------------|--|
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Not classified. |
| Inhalation | Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| <u>Suitable Extinguishing Media</u> | Foam. Dry powder. Carbon dioxide (CO ₂). Water spray. |
| <u>Unsuitable Extinguishing Media</u> | Do not use a solid water stream as it may scatter and spread fire. |
| <u>Special Hazard</u> | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. |
| <u>Explosion Data</u> | |

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Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information Use personal protective equipment.
 Evacuate non-essential personnel.
 Ensure adequate ventilation, especially in confined areas.
 ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
 Do not touch or walk through spilled material.

Other information Remove all sources of ignition.
 Stop all work that requires a naked flame, stop all vehicles, stop all machines and equipment that may cause sparks or flames.

Environmental precautions

General Information Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. The product should not be allowed to enter drains, water courses or the soil. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Methods for cleaning up Use non-sparking handtools and explosionproof electrical equipment.
 Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
 Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

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Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a banded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

Exposure controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Eye/Face Protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

Hand Protection

Protective gloves.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

| | |
|----------------------|--------------------------|
| Color | red |
| Physical State @20°C | liquid |
| Odor | Characteristic |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|------------------------------------|---|--------------------------|---|
| pH | | Not applicable | |
| Melting point/range | | No information available | |
| Boiling point/boiling range | | Not applicable | |
| Flash point | 190 °C 374 °F | | Cleveland Open Cup (COC) Cleveland Open Cup (COC). |
| Evaporation rate | | No information available | |
| Flammability Limits in Air | | No information available | |
| upper | - | No information available | |
| Lower | - | No information available | |
| Vapor Pressure | | No information available | |
| Vapor density | | No information available | |
| Relative density | | No information available | |
| Density | | No information available | |
| Water solubility | | No information available | |
| Solubility in other solvents | | No information available | |
| logPow | | No information available | |
| Autoignition temperature | | No information available | |
| Decomposition temperature | | No information available | |
| Viscosity, kinematic | 23.4 mm ² /s 7.6 mm ² /s | @ 40 °C @ 100 °C | ASTM D 2983 ASTM D 445 |
| Explosive properties | No information available | | |
| Oxidizing Properties | No information available | | |
| Possibility of hazardous reactions | No information available | | |
| <u>Other information</u> | | | |
| Freezing Point | | No information available | |

10. STABILITY AND REACTIVITY

| | |
|---------------------------|--|
| <u>Reactivity</u> | No information available. |
| <u>Chemical stability</u> | Stable under recommended storage conditions. |

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Possibility of hazardous reactions None under normal processing.

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

Incompatible Materials Strong oxidizing agents.

Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Information on likely routes of exposure

Principle Routes of Exposure Inhalation, Ingestion, Eye contact, Skin contact.

Numerical measures of toxicity - Product Information

| | |
|--------------------------------------|------------|
| ATEmix (oral) | 5837 mg/kg |
| ATEmix (dermal) | 5765 mg/kg |
| Inhalation | |
| ATEmix (inhalation-dust/mist) | 5.9 mg/l |
| ATEmix (inhalation-vapor) | 625.5 mg/l |

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|------------------------------------|---|-----------------|
| bis(nonylphenyl)amine 36878-20-3 | LD50 > 5000 mg/kg (Rat - OECD 401) | LD50 > 2000 mg/kg (Rat - OECD 402) | |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich 398141-87-2 | LD50 > 10 mL/kg bw (rat) | LD50 > 4000 < 8000 mg/kg bw (rabbit - US 16 CFR 1500.3) | |
| Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivatives ^ | LD50 > 2000 mg/kg (rat) | LD50 > 2000 mg/kg (rat) | |
| C14-18 alpha-olefin epoxide, reaction products with boric acid ^ | LD50 > 16000 mg/kg (Rat) | LD50 > 2000 mg/kg (Rat - OECD 402) | |

Information on toxicological effects

Skin contact May cause an allergic skin reaction.

Eye contact Not classified.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

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Ingestion

Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

May cause an allergic skin reaction. Contains sensitizer(s).

Carcinogenicity

This product is not classified carcinogenic.

Mutagenicity

This product is not classified as mutagenic.

Reproductive toxicity

This product does not present any known or suspected reproductive hazards.

Aspiration Hazard

Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute aquatic toxicity - Product Information

No experimental data available

Acute aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates | Toxicity to microorganisms |
|--|---|---|---|----------------------------|
| bis(nonylphenyl)amine 36878-20-3 | EC50 (72h) > 100 mg/l (Desmodesmus subspicatus - OECD 201) | LC50 (96h) > 100 mg/l (Brachyanio rerio - OECD 203) | EC50 (48h) > 100 mg/l (Daphnia magna - OECD 202) | |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich 398141-87-2 | EbL50 (72h) 3.5 mg/l (Desmodesmus subspicatus - OECD 201) ErL50 (72h) 63 mg/l (Desmodesmus subspicatus - OECD 201) | LL50 (96h) 2.4 mg/l (Oncorhynchus mykiss - OECD 203) | EC50 (48h) 4.6 mg/l (Daphnia magna - OECD 202) | |
| Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivatives ^ | EL50 (72h) >160 mg/l (Desmodesmus subspicatus) EL50 (72h) 130 mg/l (Desmodesmus subspicatus) EC50 100-1000 mg/l | LL50 (96h) 610 mg/l (Oncorhynchus mykiss) EC50 100-1000 mg/l | EL50 (48h) 77 mg/l (Daphnia magna) EC50 (48h) 1.3 mg/l (Daphnia magna) EC50 100-1000 mg/l | |
| C14-18 alpha-olefin epoxide, reaction products with boric acid ^ | EL50 (72h) > 100 mg/l (Pseudokirchnerella subcapitata - static - OECD 201) | LL50 (96h) > 100 m/l (Oncorhynchus mykiss - semi static - OECD 203) | EL50 (48h) >= 100 mg/l (Daphnia magna - static - OECD 202) | |

Chronic aquatic toxicity - Product Information

No experimental data available

Chronic aquatic toxicity - Component Information

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| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Toxicity to microorganisms |
|--|---|--|---|----------------------------|
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich 398141-87-2 | NOELR (72h) 0.313 mg/l (Desmodesmus subspicatus - OECD 201) | NOEC (48h) 0.63 mg/l (Daphnia magna - OECD 202) | NOELR (96h) 1 mg/l (Oncorhynchus mykiss - OECD 203) | |
| Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivatives ^ | NOELR (72h) 20 mg/l (Desmodesmus subspicatus) | EL50 (21d) 100 mg/l (Daphnia magna) NOELR (21d) 56 mg/l (Daphnia magna) | | |

Effects on terrestrial organisms No information available.**Persistence and degradability****General Information** No information available.**Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information** No information available.

| Chemical Name | log Pow |
|--|---------|
| bis(nonylphenyl)amine 36878-20-3 | 7.7 |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich 398141-87-2 | 4.1 |

Mobility**Soil** Given its physical and chemical characteristics, the product generally shows low soil mobility**Air** Loss by evaporation is limited**Water** Insoluble The product spreads on the surface of the water.**Other adverse effects****General Information** No information available**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste Disposal Methods** Dispose of in accordance with local regulations.**Contaminated packaging** Dispose of in accordance with local regulations.

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This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

| | |
|-------------------------|---------------|
| <u>DOT</u> | Not regulated |
| <u>TDG</u> | Not regulated |
| <u>MEX</u> | Not regulated |
| <u>ICAO/IATA</u> | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |
| <u>ADR/RID</u> | Not regulated |
| <u>ADN</u> | Not regulated |

15. REGULATORY INFORMATION**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | no |
| Fire Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

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California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | Weight % | California Prop. 65 |
|-------------------------|----------|---------------------|
| Ethylbenzene - 100-41-4 | 0.003 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---|---------------|------------|--------------|----------|--------------|
| Distillates (petroleum), hydrotreated light paraffinic 64742-55-8 | X | | | | |

16. OTHER INFORMATION

| | | | | |
|-------------|-----------------|----------------|-------------------|---------------------------------|
| NFPA | Health Hazard 2 | Flammability 1 | Instability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 2 | Flammability 1 | Physical Hazard 0 | Personal protection X |

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2015-08-04
 Revision Note: *** Indicates updated section
 Abbreviations, acronyms

Legend

Section 8
 ACGIH - American Conference of Governmental Industrial Hygienists
 OSHA - Occupational Safety and Health Administration
 NIOSH - National Institute for Occupational Safety and Health
 TLV - Threshold Limit Values
 PEL - Permissible Exposure Limits
 IDHL - Immediately Dangerous to Life or Health concentrations
 TWA - Time Weight Average
 STEL - Short Term Exposure Limits
 S* - Skin notation
 TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet

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