CN 35916. 89021808.

{ error: graphic file not

Shell MTX Fluid MSDS# 59419EDA Version 3.2 Effective Date 02/05/2014

Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

1. MATERIAL AND COMPANY IDENTIFICATION

Material Name

Shell MTX Fluid

Product Code

001B2187

Uses

Transmission oil.

Manufacturer/Supplier

Shell Oil Products US

P.O. Box 4427

Houston TX 77210-4427

USA

SDS Request

: (+1) 877-276-7285

Emergency Telephone Number

Spill Information

: 877-242-7400

Health Information

: 877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Highly refined mineral oils and additives.

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odour

Dark red. Liquid at room temperature. Slight hydrocarbon.

Health Hazards

Not classified as dangerous for supply or conveyance.

Safety Hazards

Not classified as flammable but will burn.

Environmental Hazards

Not classified as dangerous for the environment.

Health Hazards

: Not expected to be a health hazard when used under normal

conditions.

Health Hazards

Inhalation

: Under normal conditions of use, this is not expected to be a

primary route of exposure.

Skin Contact

: Prolonged or repeated skin contact without proper cleaning can

clog the pores of the skin resulting in disorders such as oil

acne/folliculitis.

Eve Contact

May cause slight irritation to eyes.

Ingestion

Low toxicity if swallowed.

Other Information

Signs and Symptoms

Used oil may contain harmful impurities.

: Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas.

Aggravated Medical

Ingestion may result in nausea, vomiting and/or diarrhoea. : Pre-existing medical conditions of the following organ(s) or

1/9

Shell MTX Fluid MSDS# 59419EDA Version 3.2 Effective Date 02/05/2014

Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Conditions

organ system(s) may be aggravated by exposure to this

material: Skin.

Environmental Hazards

: Not classified as dangerous for the environment.

Additional Information

: Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

4. FIRST-AID MEASURES

General Information

Not expected to be a health hazard when used under normal

conditions.

Inhalation

No treatment necessary under normal conditions of use. If

symptoms persist, obtain medical advice.

Skin Contact

Remove contaminated clothing. Flush exposed area with water

and follow by washing with soap if available. If persistent

irritation occurs, obtain medical attention.

Eye Contact

Flush eye with copious quantities of water. If persistent

irritation occurs, obtain medical attention.

Ingestion

In general no treatment is necessary unless large quantities

are swallowed, however, get medical advice.

Advice to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point

Typical 350 °C / 662 °F (COC)

Upper / lower Flammability or Typical 1 - 10 %(V)(based on mineral oil)

Explosion limits

Auto ignition temperature

Specific Hazards

: > 320 °C / 608 °F

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic

compounds.

Suitable Extinguishing

Media

Foam, water spray or fog. Dry chemical powder, carbon

Unsuitable Extinguishing

Media

dioxide, sand or earth may be used for small fires only.

Do not use water in a jet.

Protective Equipment for

Firefighters

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

{ error: graphic

file not Material Safety Data Sheet

Shell MTX Fluid MSDS# 59419EDA Version 3.2 Effective Date 02/05/2014 According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Protective measures

: Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading

or entering drains, ditches or rivers by using sand, earth, or

other appropriate barriers.

Clean Up Methods

Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Additional Advice

Local authorities should be advised if significant spillages

cannot be contained.

7. HANDLING AND STORAGE

General Precautions

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage

and disposal of this material.

Handling

Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or

cleaning materials in order to prevent fires.

Storage

Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Store at

ambient temperature.

Product Transfer

This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used

during all bulk transfer operations.

Recommended Materials

For containers or container linings, use mild steel or high

density polyethylene.

Unsuitable Materials

PVC.

Additional Information

Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA(Inhalabl e fraction.)		5 mg/m3	
Oil mist, mineral	OSHA Z1	PEL(Mist.)		5 mg/m3	

Material Safety Data Sheet

Shell MTX Fluid MSDS# 59419EDA Version 3.2 Effective Date 02/05/2014 According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Biological Exposure Index (BEI) No biological limit allocated.

Exposure Controls

depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated. Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or for subsequent recycle. Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

The level of protection and types of controls necessary will vary

Personal Protective Equipment Respiratory Protection Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours (boiling point >65°C(149 °F)).

Hand Protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves,

Material Safety Data Sheet

Shell MTX Fluid
MSDS# 59419EDA
Version 3.2
Effective Date 02/05/2014
According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference

breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Eye Protection : Wear safety glasses or full fac

: Wear safety glasses or full face shield if splashes are likely to

occur.

Protective Clothing : Skin protection not ordinarily required beyond standard issue

work clothes.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/Health and Safety Executive (HSE), UK: Methods for the

Determination of Hazardous Substances

http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen

Unfallversicherung (IFA), Germany. http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France

http://www.inrs.fr/accueil

Environmental Exposure Controls

Take appropriate measures to fulfil the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

Material Safety Data Sheet

Shell MTX Fluid MSDS# 59419EDA Version 3.2 Effective Date 02/05/2014

According to OSHA Hazard Communication Standard, 29 CFR
1910 1200

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Dark red. Liquid at room temperature.

Odour : Slight hydrocarbon. pH : Not applicable.

Initial Boiling Point and : > 280 °C / 536 °F estimated value(s)

Boiling Range
Pour point : Typical -55 °C / -67 °F

Flash point : Typical 350 °C / 662 °F (COC)

Upper / lower Flammability : Typical 1 - 10 %(V) (based on mineral oil)

or Explosion limits
Auto-ignition temperature : > 320 °C / 608 °F

Vapour pressure : < 0.5 Pa at 20 °C / 68 °F (estimated value(s))

Specific gravity : Typical 0.885
Density : Typical 7.49 g/cm3

Water solubility : Negligible.

n-octanol/water partition : > 6 (based on information on similar products) coefficient (log Pow)

Kinematic viscosity : Typical 40 mm2/s at 40 °C / 104 °F Vapour density (air=1) : > 1 (estimated value(s))

Electrical conductivity : This material is not expected to be a static accumulator.

Evaporation rate (nBuAc=1) : Data not available

10. STABILITY AND REACTIVITY

Stability : Stable.

Conditions to Avoid : Extremes of temperature and direct sunlight.

Materials to Avoid : Strong oxidising agents.

Hazardous Decomposition : Hazardous decomposition products are not expected to form

Products during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on data on the components and the

toxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

Acute Oral Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat

Acute Dermal Toxicity : Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit

Acute Inhalation Toxicity : Not considered to be an inhalation hazard under normal

conditions of use.

Skin Irritation : Expected to be slightly irritating. Prolonged or repeated skin

contact without proper cleaning can clog the pores of the skin

resulting in disorders such as oil acne/folliculitis.

Eye Irritation : Expected to be slightly irritating.

Respiratory Irritation : Inhalation of vapours or mists may cause irritation.

Sensitisation : Not expected to be a skin sensitiser.

Shell MTX Fluid MSDS# 59419EDA Version 3.2 Effective Date 02/05/2014

Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Repeated Dose Toxicity

: Not expected to be a hazard.

Mutagenicity Carcinogenicity : Not considered a mutagenic hazard.

: Not expected to be carcinogenic. Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on

Cancer (IARC).

Canton (##10).				
Distillates (petroleum),	:	GHS / CLP: No carcinogenicity classification		
hydrotreated heavy				
paraffinic				
Polymethacrylate	:	GHS / CLP: No carcinogenicity classification		
Polymethaciyiate	· .	GHS / CLF. 190 Carcinogenicity Gassilication		

Reproductive and Developmental Toxicity Additional Information Not expected to be a hazard.

Used oils may contain harmful impurities that have

accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Acute Toxicity

: Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract. Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

Mobility

Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile. Floats on

water.

Persistence/degradability

Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation
Other Adverse Effects

Contains components with the potential to bioaccumulate.

Product is a mixture of non-volatile components, which are not

expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

Material Safety Data Sheet

Shell MTX Fluid MSDS# 59419EDA Version 3.2 Effective Date 02/05/2014 According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

13. DISPOSAL CONSIDERATIONS

Recover or recycle if possible. It is the responsibility of the **Material Disposal**

waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in

drains or in water courses.

Dispose in accordance with prevailing regulations, preferably **Container Disposal**

to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Local Legislation Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

14. TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR)

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status

All components listed or **EINECS**

polymer exempt.

All components listed. **TSCA** DSL

All components listed.

Material Safety Data Sheet

Shell MTX Fluid
MSDS# 59419EDA
Version 3.2
Effective Date 02/05/2014
According to OSHA Hazard Communication Standard, 29 CFR
1910.1200

Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

NFPA Rating (Health,

: 0, 1, 0

Fire, Reactivity)

SDS Version Number

3.2

SDS Effective Date

02/05/2014

SDS Revisions

: A vertical bar (I) in the left margin indicates an amendment

from the previous version.

SDS Regulation

The content and format of this MSDS is in accordance with the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SDS Distribution

The information in this document should be made available to

all who may handle the product.

Disclaimer : The information contained h

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to

be obtained from the use of the product.