MASSEY FERGUSON

# SAFETY DATA SHEET
# MF Power HC Plus

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name** MF Power HC Plus

**Product number** 7461-203

**Internal identification** GHS21792

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Engine oil. Transmission and Hydraulic oil

**Uses advised against** No specific uses advised against are identified.

### 1.3. Details of the supplier of the safety data sheet

**Supplier**
AGCO Ltd - Massey Ferguson Brand
Abbey Park
Stoneleigh
Kenilworth
England
CV8 2TQ
+44(0)2476694400
+44(0)24768551226
sds@uk.agcocorp.com

**Manufacturer**
MORRIS LUBRICANTS
Castle Foregate
Shrewsbury
Shropshire
SY1 2EL
UK
+44 (0) 1743 232200
+44 (0) 1743 353584
sds@morris-lubricants.co.uk

### 1.4. Emergency telephone number

**Emergency telephone** Agco Parts +44(0)247 6694400

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Not classified

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### 2.2. Label elements

**Hazard statements** EUH208 Contains C14-18 alpha-olefin epoxide, reaction products with boric acid, Benzene, polypropene derivatives, sulfonated, calcium salts. May produce an allergic reaction.

**Supplemental label information** EUH210 Safety data sheet available on request.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Distillates,hydrotreated heavy paraffinic** **30-60%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0014

| Classification | Classification (67/548/EEC or 1999/45/EC) |
|---|---|
| Asp. Tox. 1 - H304 | - |

**Distillates, hydrotreated heavy paraffinic** **10-30%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0014

| Classification | Classification (67/548/EEC or 1999/45/EC) |
|---|---|
| Not Classified | - |

**Distillates (petroleum) hydrotreated heavy paraffinic** **10-30%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-XXXX

| Classification | Classification (67/548/EEC or 1999/45/EC) |
|---|---|
| Asp. Tox. 1 - H304 | - |

**2-ethylhexyl zinc dithiophosphate** **1-5%**

CAS number: 4259-15-8 EC number: 224-235-5 REACH registration number: 01-2119493635-27-0000

| Classification | Classification (67/548/EEC or 1999/45/EC) |
|---|---|
| Eye Dam. 1 - H318<br>Aquatic Chronic 2 - H411 | Xi;R41. N;R51/53. |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information** Get medical attention if any discomfort continues. May produce an allergic reaction.

**Inhalation** If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

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**Ingestion** Get medical attention if any discomfort continues. Do not induce vomiting.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water.

### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation** Upper respiratory irritation.

**Ingestion** The product contains mineral oil, which if aspirated into the lungs through vomitting after ingestion, may result in chemical pneumonia.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** Irritation of eyes and mucous membranes.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Heat from fire could result in drums bursting

**Hazardous combustion products** Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Oxides of carbon. Oxides of nitrogen.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** For personal protection, see Section 8. Take care as floors and other surfaces may become slippery. Keep unnecessary and unprotected personnel away from the spillage.

### 6.2. Environmental precautions

**Environmental precautions** The product is insoluble in water and will spread on the water surface. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** In case of spillage on water prevent the spread by use of suitable barrier equipment Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

**Distillates,hydrotreated heavy paraffinic**

Long-term exposure limit (8-hour TWA): ACGIH 5
Short-term exposure limit (15-minute): ACGIH 10 mg/m³

**Distillates, hydrotreated heavy paraffinic**

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³
Short-term exposure limit (15-minute): ACGIH 10 mg/m³

**Distillates (petroleum) hydrotreated heavy paraffinic**

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³
Short-term exposure limit (15-minute): WEL 10 mg/m³

**Mineral Oil**

Long-term exposure limit (8-hour TWA): OES 5 mg/m3(c)

ACGIH = American Conference of Governmental Industrial Hygienists.
WEL = Workplace Exposure Limit

#### 2-ethylhexyl zinc dithiophosphate (CAS: 4259-15-8)

**DNEL**

Workers - Dermal; systemic effects: 0.14 mg/kg/day
Workers - Inhalation; systemic effects: 0.422 ppm
Workers - Inhalation; Long term systemic effects: 0.07 ppm
Workers - Dermal; local effects: 0.09 mg/cm²
Workers - Inhalation; local effects: 0.42 ppm
Workers - Inhalation; Long term systemic effects: 0.21 ppm
Workers - Dermal; Long term systemic effects: 0.09 mg/cm²
Workers - Dermal; Long term systemic effects:

**PNEC**

- Fresh water; 0.004 mg/l
- Soil; 0.0548 mg/kg
- Sediment (Freshwater); 0.0701 mg/kg
- marine water; 0.0046 mg/l
- Sediment (Marinewater); 0.00701 mg/kg
- STP; 3.8 mg/l
- Air; 7.1 mg/m³

### 8.2. Exposure controls

**Protective equipment**

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| | |
|---|---|
| **Appropriate engineering controls** | Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. |
| **Eye/face protection** | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. |
| **Hand protection** | The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. |
| **Hygiene measures** | Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated. |
| **Respiratory protection** | No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. |
| **Thermal hazards** | Not anticipated under normal conditions of use. The product is combustible if heated excessively and an ignition source is applied. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance** | Liquid. |
| **Colour** | Amber. |
| **Odour** | Oil-like. |
| **Odour threshold** | Not known. |
| **Melting point** | -36°C Pour point |
| **Initial boiling point and range** | >320°C @ 101.3 kPa |
| **Flash point** | 187°C Pensky-Martens closed cup. |
| **Evaporation rate** | Not relevant. |
| **Upper/lower flammability or explosive limits** | Not known. |
| **Other flammability** | Product is not flammable but on excessive heating may become combustible. |
| **Relative density** | 0.877 @ 15.6°C |
| **Solubility(ies)** | Insoluble in water. Soluble in the following materials: Organic solvents. |
| **Partition coefficient** | Not determined. log Kow:>7 Typical of mineral oil. |
| **Auto-ignition temperature** | No specific test data are available. |
| **Decomposition Temperature** | Not determined. |
| **Viscosity** | 86.1 cSt @ 40°C |
| **Explosive properties** | Not considered to be explosive. |
| **Explosive under the influence of a flame** | Not considered to be explosive. |
| **Oxidising properties** | The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising. |

### 9.2. Other information

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| | |
|---|---|
| **Volatile organic compound** | The product is a complex mixture, the majority of which would not be classed as a VOC. However it cannot be discounted that trace or low levels of VOC's may be present. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

| | |
|---|---|
| **Reactivity** | There are no known reactivity hazards associated with this product. |

### 10.2. Chemical stability

| | |
|---|---|
| **Stability** | Stable at normal ambient temperatures and when used as recommended. |

### 10.3. Possibility of hazardous reactions

| | |
|---|---|
| **Possibility of hazardous reactions** | Under normal conditions of storage and use, no hazardous reactions will occur. |

### 10.4. Conditions to avoid

| | |
|---|---|
| **Conditions to avoid** | Avoid heat, flames and other sources of ignition. |

### 10.5. Incompatible materials

| | |
|---|---|
| **Materials to avoid** | Strong oxidising agents. |

### 10.6. Hazardous decomposition products

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|---|---|
| **Hazardous decomposition products** | Oxides of carbon. Oxides of nitrogen. |

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

| | |
|---|---|
| **Notes (oral $LD_{50}$)** | Based on available data the classification criteria are not met. |

#### Acute toxicity - dermal

| | |
|---|---|
| **Notes (dermal $LD_{50}$)** | Based on available data the classification criteria are not met. |

#### Acute toxicity - inhalation

| | |
|---|---|
| **Notes (inhalation $LC_{50}$)** | The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use. |

#### Serious eye damage/irritation

| | |
|---|---|
| **Serious eye damage/irritation** | May cause mild, short lasting discomfort to eyes. |

#### Respiratory sensitisation

| | |
|---|---|
| **Respiratory sensitisation** | Repeated exposure to oil mists may cause respiratory damage. There is no evidence that the product can cause respiratory hypersensitivity. |

#### Skin sensitisation

| | |
|---|---|
| **Skin sensitisation** | Based on available data the classification criteria are not met. |

#### Carcinogenicity

| | |
|---|---|
| **Carcinogenicity** | This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP346 test |

#### Reproductive toxicity

| | |
|---|---|
| **Reproductive toxicity - fertility** | No data available to suggest the product will cause reproductive toxicity. |

#### Specific target organ toxicity - single exposure

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| | |
|---|---|
| **STOT - single exposure** | Based on available data the classification criteria are not met. |

**Specific target organ toxicity - repeated exposure**

| | |
|---|---|
| **STOT - repeated exposure** | Based on available data the classification criteria are not met. |

**Aspiration hazard**

| | |
|---|---|
| **Aspiration hazard** | Although not classified, the product contains mineral oil. If aspirated into the lungs e.g. through vomiting after ingestion, admit to hospital immediately. |

| | |
|---|---|
| **General information** | This product has low toxicity. Only large quantities are likely to have adverse effects on human health. May produce an allergic reaction. |
| **Inhalation** | Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. |
| **Ingestion** | No harmful effects expected from quantities likely to be ingested by accident. |
| **Skin contact** | Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking. |
| **Eye contact** | May cause temporary eye irritation. |
| **Acute and chronic health hazards** | Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer. |

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## SECTION 12: Ecological information

**Ecotoxicity** Based on available data the classification criteria are not met. Not regarded as dangerous for the environment.

### 12.1. Toxicity

**Toxicity** Based on available data the classification criteria are not met. Not considered toxic to fish.

**Acute aquatic toxicity**

**Acute toxicity - aquatic invertebrates** Based on available data the classification criteria are not met.

### 12.2. Persistence and degradability

**Stability (hydrolysis)** The product is based on highly refined mineral oils that are considered stable to hydrolysis.

**Biodegradation** The product is not considered readily biodegradeable, albeit the major constituents are expected to ultimately biodegrade.

**Biological oxygen demand** Not determined.

**Chemical oxygen demand** Not determined.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

**Partition coefficient** Not determined. log Kow:>7 Typical of mineral oil.

### 12.4. Mobility in soil

**Mobility** The product is non-volatile. The product is insoluble in water and will spread on the water surface.

**Henry's law constant** Not determined.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

**Waste class** European Waste Catalogue (EWC) = 13 01 13* (other hydraulic oils)

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

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No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**
No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

| | |
|---|---|
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|---|---|
| **National regulations** | Health and Safety at Work etc. Act 1974 (as amended).<br>Control of Substances Hazardous to Health Regulations 2002 (as amended).<br>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br>EH40/2005 Workplace exposure limits. |
| **EU legislation** | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).<br>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). |
| **Guidance** | Workplace Exposure Limits EH40.<br>Safety Data Sheets for Substances and Preparations. |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### Inventories

**Canada - DSL/NDSL**
All the ingredients are listed or exempt.

**US - TSCA**
All the ingredients are listed or exempt.

**Australia - AICS**
All the ingredients are listed or exempt.

**Korea - KECI**
All the ingredients are listed or exempt.

**China - IECSC**
All the ingredients are listed or exempt.

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**Philippines – PICCS**
All the ingredients are listed or exempt.

**New Zealand - NZIOC**
All the ingredients are listed or exempt.

## SECTION 16: Other information

| | |
|---|---|
| **Abbreviations and acronyms used in the safety data sheet** | ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.<br>CAS: Chemical Abstracts Service.<br>DNEL: Derived No Effect Level.<br>GHS: Globally Harmonized System.<br>IATA: International Air Transport Association.<br>IMDG: International Maritime Dangerous Goods.<br>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.<br>vPvB: Very Persistent and Very Bioaccumulative. |
| **Revision comments** | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| **Issued by** | Regulatory Affairs |
| **Revision date** | 14/02/2019 |
| **Revision** | 2 |
| **Supersedes date** | 13/10/2015 |
| **SDS number** | 21792 |
| **Hazard statements in full** | H304 May be fatal if swallowed and enters airways.<br>H318 Causes serious eye damage.<br>H411 Toxic to aquatic life with long lasting effects.<br>EUH208 Contains C14-18 alpha-olefin epoxide, reaction products with boric acid, Benzene, polypropene derivatives, sulfonated, calcium salts. May produce an allergic reaction. |