

## Work Horse HD Moly 5% Grease

Revision date 24-Jun-2024

Supersedes Date 08-Jul-2022

Revision Number 4

### 1. Identification

#### Product identifier

**Product Name** Work Horse HD Moly 5% Grease

#### Other means of identification

**Product Code(s)** 9510TAJRM

**Synonyms** Royal Ultra 865M w/ 5% Moly #2

#### Recommended use of the chemical and restrictions on use

**Recommended use** Lubricating grease

**Restrictions on use** No information available

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

##### Initial supplier identifier

AXEL Royal, LLC  
516 S. 25th West Ave  
Tulsa, OK 74127 United  
States  
918 584 2671

##### Supplier Address

AXEL Royal, LLC 516  
S. 25th West Ave  
Tulsa, OK 74127  
United States  
918 584 2671

**E-mail address** hse.support@axelch.com

**Company Phone Number** 1-800-255-3924

**24 Hour Emergency Phone Number** +01-813-248-0585

### 2. Hazard(s) identification

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Hazards not otherwise classified (HNOC)** Not applicable

#### Label elements

Not classified

**Hazard statements**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Other information**

May be harmful in contact with skin. May be harmful if swallowed.

**3. Composition/information on ingredients****Substance**

Not applicable.

**Mixture**

| Chemical name                              | CAS No.    | Weight-% | Trade secret |
|--------------------------------------------|------------|----------|--------------|
| Calcium dodecylbenzenesulphonate           | 26264-06-2 | <2.5     | *            |
| 4,4'-methylene bis(dibutyldithiocarbamate) | 10254-57-6 | <2.5     | *            |

The exact percentage (concentration) of composition has been withheld as a trade secret.

**Ingredient comments**

This product is a calcium sulfonate complex grease based on mineral oils. The mineral oils in the product contain <3%DMSO-extract (IP 346).

**4. First-aid measures****Description of first aid measures**

|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Move to fresh air in case of accidental inhalation of vapors                                                         |
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin contact</b> | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.                 |
| <b>Ingestion</b>    | Rinse mouth. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.                 |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Effects of Exposure** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. Fire-fighting measures**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

|                                                                |                                                                                                                                       |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Large Fire                                                     | surrounding environment.<br>CAUTION: Use of water spray when fighting fire may be inefficient.                                        |
| Unsuitable extinguishing media                                 | Do not scatter spilled material with high pressure water streams.                                                                     |
| Specific hazards arising from the chemical                     | No information available.                                                                                                             |
| Explosion data                                                 |                                                                                                                                       |
| Sensitivity to mechanical impact                               | None.                                                                                                                                 |
| Sensitivity to static discharge                                | None.                                                                                                                                 |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.<br>Use personal protection equipment. |

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions                      Ensure adequate ventilation.

### Methods and material for containment and cleaning up

Methods for containment                      Prevent further leakage or spillage if safe to do so.

Methods for cleaning up                      Pick up and transfer to properly labeled containers.

Prevention of secondary hazards                      Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

### Precautions for safe handling

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

### Conditions for safe storage, including any incompatibilities

Storage Conditions                      Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

### Control parameters

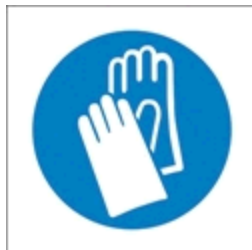
Exposure Limits                      This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Exposure guidelines

Other information                      Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

**Appropriate engineering controls**

|                             |                                                     |
|-----------------------------|-----------------------------------------------------|
| <b>Engineering controls</b> | Showers<br>Eyewash stations<br>Ventilation systems. |
|-----------------------------|-----------------------------------------------------|

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Hand protection**

Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Skin and body protection**

Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Respiratory protection**

Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Paste / Gel Liquid       |
| <b>Appearance</b>     | Semi-solid               |
| <b>Color</b>          | No information available |
| <b>Odor</b>           | No information available |
| <b>Odor threshold</b> | No information available |

| <b><u>Property</u></b>                         | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |
|------------------------------------------------|----------------------|--------------------------------|
| <b>pH</b>                                      |                      | No information available       |
| <b>Melting point / freezing point</b>          |                      | No information available       |
| <b>Initial boiling point and boiling range</b> |                      | No information available       |
| <b>Flash point</b>                             | > 150 °C / > 302 °F  | Based on base oils             |
| <b>Evaporation rate</b>                        |                      | No information available       |
| <b>Flammability</b>                            |                      | No information available       |
| <b>Flammability Limit in Air</b>               |                      | No information available       |
| <b>Upper flammability or explosive limits</b>  | No data available    |                                |
| <b>Lower flammability or explosive limits</b>  | No data available    |                                |
| <b>Vapor pressure</b>                          |                      | No information available       |
| <b>Relative vapor density</b>                  |                      | No information available       |

|                              |                                          |                          |
|------------------------------|------------------------------------------|--------------------------|
| Relative density             |                                          | No information available |
| Water solubility             | Insoluble in water                       | No information available |
| Solubility in other solvents |                                          | No information available |
| Partition coefficient        |                                          | No information available |
| Autoignition temperature     |                                          | No information available |
| Hyphen                       |                                          | No information available |
| Kinematic viscosity          |                                          | No information available |
| Dynamic viscosity            |                                          | No information available |
| Other information            |                                          |                          |
| Explosive properties         | No information available                 |                          |
| Oxidizing properties         | No information available                 |                          |
| Softening point              | No information available                 |                          |
| Molecular weight             | No information available                 |                          |
| VOC content                  | Not applicable.                          |                          |
| Liquid Density               | < 1000 kg/m <sup>3</sup> @ 25 °C / 77 °F |                          |
| Bulk density                 | No information available                 |                          |

## 10. Stability and reactivity

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Reactivity                         | Stable.                                   |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | Excessive heat.                           |
| Incompatible materials             | Strong oxidizing agents.                  |
| Hazardous decomposition products   | None known based on information supplied. |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------|
| Product Information | Product does not present an acute toxicity hazard based on known or supplied information.            |
| Inhalation          | Specific test data for the substance or mixture is not available. Not an expected route of exposure. |
| Eye contact         | Specific test data for the substance or mixture is not available.                                    |
| Skin contact        | May be harmful in contact with skin.                                                                 |
| Ingestion           | Specific test data for the substance or mixture is not available.                                    |

### Symptoms related to the physical, chemical and toxicological characteristics

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

### Acute toxicity

Numerical measures of toxicity  
No information available

The following values are calculated based on chapter 3.1 of the GHS document

|                 |                |
|-----------------|----------------|
| ATEmix (oral)   | 5,538.00 mg/kg |
| ATEmix (dermal) | 2,843.90 mg/kg |

| Chemical name                                             | Oral LD50             | Dermal LD50             | Inhalation LC50 |
|-----------------------------------------------------------|-----------------------|-------------------------|-----------------|
| Calcium dodecylbenzenesulphonate<br>26264-06-2            | 4445 mg/kg ( Rat )    | -                       | -               |
| 4,4'-methylene<br>bis(dibutylthiocarbamate)<br>10254-57-6 | = 16000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | -               |

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

|                                          |                                                                   |
|------------------------------------------|-------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Based on available data, the classification criteria are not met. |
| <b>Serious eye damage/eye irritation</b> | Based on available data, the classification criteria are not met. |
| <b>Respiratory or skin sensitization</b> | Based on available data, the classification criteria are not met. |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met. |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met. |
| <b>STOT - repeated exposure</b>          | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met. |
| <b>Other adverse effects</b>             | No information available.                                         |
| <b>Interactive effects</b>               | No information available.                                         |

## **12. Ecological information**

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

| Chemical name                                          | Algae/aquatic plants | Fish                                       | Toxicity to microorganisms | Crustacea |
|--------------------------------------------------------|----------------------|--------------------------------------------|----------------------------|-----------|
| Calcium dodecylbenzenesulphonate<br>26264-06-2         | -                    | LC50: =10.8mg/L (96h, Oncorhynchus mykiss) | -                          | -         |
| 4,4'-methylene bis(dibutylthiocarbamate)<br>10254-57-6 | -                    | LC50: >0.06mg/L (96h, Oncorhynchus mykiss) | -                          | -         |

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

| Chemical name                                            | Partition coefficient |
|----------------------------------------------------------|-----------------------|
| 4,4'-methylene bis(dibutyldithiocarbamate)<br>10254-57-6 | 8.42                  |

#### Mobility

**Mobility in soil** After release, adsorbs onto soil

**Mobility** Insoluble in water

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Other information** Waste codes should be assigned by the user based on the application for which the product was used

### 14. Transport information

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO (air)** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

### 15. Regulatory information

#### International Inventories

**TSCA** Complies

**DSL/NDSL** Complies

**EINECS/ELINCS** -

**REACH** Contact supplier for inventory compliance status

**ENCS** -

**IECSC** Complies

**KECI** Complies

|       |          |
|-------|----------|
| PICCS | Complies |
| AIIC  | Complies |
| NZIoC | Complies |
| TSCI  | Complies |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**TSCI** - Taiwan Chemical Substance Inventory

**US 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**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name                                  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Calcium dodecylbenzenesulphonate<br>26264-06-2 | 1000 lb                     | -                      | -                         | X                          |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name                                  | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ)                  |
|------------------------------------------------|--------------------------|------------------------------------|-------------------------------------------|
| Calcium dodecylbenzenesulphonate<br>26264-06-2 | 1000 lb                  | -                                  | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.



| Chemical name                            | California Proposition 65 |
|------------------------------------------|---------------------------|
| Crystalline Silica (Quartz) - 14808-60-7 | Carcinogen                |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. Other information**

|             |                  |                |                    |                       |
|-------------|------------------|----------------|--------------------|-----------------------|
| <b>NFPA</b> | Health hazards 0 | Flammability 1 | Instability 0      | Special hazards -     |
| <b>HMIS</b> | Health hazards 0 | Flammability 1 | Physical hazards 0 | Personal protection p |

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorization:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
STOT: Specific Target Organ Toxicity  
ATE: Acute Toxicity Estimate  
LC50: 50% Lethal Concentration  
LD50: 50% Lethal Dose

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |
| +       | Sensitizers                 |      |                                  |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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Revision Note SDS sections updated. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16.

**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.

**End of Safety Data Sheet**

**United States of America**

**US SDS version information - AGHS**

UL release:

GHS Revision 3

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