

Cv Joint Grease

**Product Number:
MSDS Revision Date:**

**50101-7
09/25/2014**

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

1.1. Product Identifier

Cv Joint Grease

Product Code

50101

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

Intended use

See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

EMPI INC.
301 E. ORANGETHORPE AVE.
ANAHEIM, CA 92801

Telephone No. (714) 446-9606

1.4. Emergency telephone number

(800) 424-9300 24hr

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not Classified

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labeled as follows.

Not Classified

| | | | | | |
|-------------|--------------------------|---|-------------|-------------------------|----|
| HMIS | Health: | 0 | NFPA | Health: | 0 |
| | Fire: | 1 | | Fire: | 1 |
| | Physical Hazards: | 0 | | Reactivity: | 0 |
| | PPE: | C | | Special Hazards: | -- |

2.3. Other hazards

This product contains no PBT/vPvB chemicals.

SECTION 3: Composition/information on ingredients

| Ingredient/Chemical Designations | Weight % | EC No. 1272/2008 / GHS Classification |
|--|----------|---------------------------------------|
| Distillate (petroleum) hydrotreated heavy naphthenic CAS Number: 0064742-52-5 | <90 | Not Classified |
| Residual oils (petroleum), hydrotreated CAS Number: 0064742-57-0 | <20 | Not Classified |
| Octadecanoic acid, 12-hydroxy- CAS Number: 0000106-14-9 | <10 | Not Classified |
| Molybdenum (IV) sulfide CAS Number: 0001317-33-5 | <3 | Not Classified |

*The full texts of the phrases are shown in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation

If inhaled, remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. If unconscious, place in the recovery position and seek medical attention immediately.

Skin

In case of contact, immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

Eye

In case of contact, immediately rinse eyes with plenty of fresh, clean water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention immediately.

Ingestion

Do not induce vomiting. Call a physician or emergency medical facility immediately.

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

No data available

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

No data available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Use Carbon dioxide (CO₂), dry chemical, or foam to extinguish flames.

5.2. Special hazards arising from the substance or mixture

Hazardous Decomposition Products: May form CO and CO₂.

5.3. Advice for fire-fighters

Self-contained full-face positive pressure breathing apparatus (SCBA) should be used. Water can be used to cool and protect exposed material. Do not allow runoff water and contaminants from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled material. Use suitable personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate personnel to safe areas. Keep unnecessary personnel away.

6.2. Environmental precautions

Prevent entry into sewers and waterways. Report spills as required to appropriate authorities in accordance with all applicable regulations.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or water courses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Dispose of in accordance with all federal, state, and local environmental regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation.

In Storage

Store in a dry location at room temperature.

Keep this container and vapors from the container away from heat and flame. Keep container closed and maintain all original markings and labels.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from strong oxidizing and reducing agents.

CAUTION!!! Do not use cutting or welding torches on drums, even when empty. Do not reuse container. Containers, even those that have been emptied will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

7.3. Specific end use(s)

There are no exposure scenarios, see details in section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

The following occupational exposure limits have been established.

| CAS Number | Ingredient | Source | Value |
|--------------|--|--------|----------------------|
| 0000106-14-9 | Octadecanoic acid, 12-hydroxy- | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |
| 0001317-33-5 | Molybdenum (IV) sulfide | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |
| 0064742-52-5 | Distillate (petroleum) hydrotreated heavy naphthenic | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |
| 0064742-57-0 | Residual oils (petroleum), hydrotreated | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |

Contains mineral oil. The exposure limits for oil mist are 5 mg/m³ OSHA PEL and 10 mg/m³ ACGIH.

Carcinogen Data

| CAS No. | Ingredient | Source | Value |
|--------------|--------------------------------|--------|--|
| 0000106-14-9 | Octadecanoic acid, 12-hydroxy- | OSHA | Select Carcinogen: No |
| | | IARC | Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No; |
| | | | |

| | | | |
|--------------|--|------|--|
| 0001317-33-5 | Molybdenum (IV) sulfide | OSHA | Select Carcinogen: No |
| | | IARC | Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No; |
| 0064742-52-5 | Distillate (petroleum) hydrotreated heavy naphthenic | OSHA | Select Carcinogen: No |
| | | IARC | Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No; |
| 0064742-57-0 | Residual oils (petroleum), hydrotreated | OSHA | Select Carcinogen: No |
| | | IARC | Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No; |

DNEL/PNEC values

No Data Available

8.2. Exposure controls

No special requirements under ordinary conditions of use and with adequate ventilation.

Eye/face protection

Wear safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.

Skin protection

Wear chemical resistant gloves. Gloves should be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

Other

Gloves, overalls, apron, boots, or other suitable protective garments should be worn to minimize contact based on the task being performed.

Respiratory protection

Use NIOSH/OSHA approved respirator where high vapor concentrations are present.

Thermal hazards

No Data Available

SECTION 9: Physical and chemical properties

| | |
|--|----------------|
| Appearance | GREY GREASE |
| Odor | Petroleum Odor |
| Odor threshold | Not Determined |
| pH | Not Measured |
| Melting point / freezing point (C) | Not Determined |
| Initial boiling point and boiling range (C) | > 300 |
| Flash point (C) | > 200 |
| Evaporation rate (H20 = 1) | Not Determined |

| | |
|--|-------------------|
| Flammability (solid, gas) | Not Applicable |
| Upper/lower flammability or explosive limits | |
| Lower Explosive Limit: | Not Determined |
| Upper Explosive Limit: | Not Determined |
| Vapor pressure (Pa) | Not Determined |
| Vapor density | Heavier than air. |
| Relative density | 0.9204 |
| Solubility(ies) | negligible |
| Partition coefficient n-octanol/water (Log Kow) | Not Determined |
| Auto-ignition temperature (C) | Not Determined |
| Decomposition temperature | Not Determined |
| Viscosity (cSt) | |
| @ 100 C | Not Measured |
| @ 40 C | Not Measured |
| Pour point temperature (C) | Not Determined |
| Volatile Organic Compounds | nil |
| SADT | Not Determined |

The data listed above are typical physical and chemical properties that do not constitute product specification.

9.2. Other information

DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Material is normally stable at ambient temperature and pressure.

10.3. Possibility of hazardous reactions

May react with: oxidizing agents.

10.4. Conditions to avoid

High temperature, sparks, and open flames.

10.5. Incompatible materials

Keep away from strong oxidizing and reducing agents.

10.6. Hazardous decomposition products

Hazardous Decomposition Products: May form CO and CO₂.

SECTION 11: Toxicological information

Acute toxicity

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation vapor LD50, mg/L/4hr |
|---|------------------|------------------|---------------------------------|
| Distillate (petroleum) hydrotreated heavy naphthenic - (0064742-52-5) | >5,000, Rat | 5,000.00, Rabbit | Not Available |
| Molybdenum (IV) sulfide - (0001317-33-5) | Not Available | Not Available | Not Available |
| Octadecanoic acid, 12-hydroxy- - (0000106-14-9) | Not Available | Not Available | Not Available |
| Residual oils (petroleum), hydrotreated - (0064742-57-0) | Not Available | Not Available | Not Available |

| Classification | Category | Hazard Description |
|-------------------------------|----------------|--------------------|
| Acute toxicity (oral) | Not Classified | Not Applicable |
| Acute toxicity (dermal) | Not Classified | Not Applicable |
| Acute toxicity (inhalation) | Not Classified | Not Applicable |
| Skin corrosion/irritation | Not Classified | Not Applicable |
| Serious eye damage/irritation | Not Classified | Not Applicable |
| Respiratory sensitization | Not Classified | Not Applicable |
| Skin sensitization | Not Classified | Not Applicable |
| Germ cell mutagenicity | Not Classified | Not Applicable |
| Carcinogenicity | Not Classified | Not Applicable |
| Reproductive toxicity | Not Classified | Not Applicable |
| STOT-single exposure | Not Classified | Not Applicable |
| STOT-repeated exposure | Not Classified | Not Applicable |
| Aspiration hazard | Not Classified | Not Applicable |

SECTION 12: Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment

Aquatic Ecotoxicity

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|---|------------------------|----------------------------|-------------------------------|
| Distillate (petroleum) hydrotreated heavy naphthenic - (0064742-52-5) | 5,000.00, Oncorhynchus | 1,000.00, Daphnia magna | 1,000.00 (96 hr), Scenedesmus |

| 5) | mykiss | | subspicatus |
|--|---------------|---------------|---------------|
| Residual oils (petroleum), hydrotreated - (0064742-57-0) | Not Available | Not Available | Not Available |
| Octadecanoic acid, 12-hydroxy- - (0000106-14-9) | Not Available | Not Available | Not Available |
| Molybdenum (IV) sulfide - (0001317-33-5) | Not Available | Not Available | Not Available |

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult federal, state and local regulations regarding disposal methods, recycle used oil. Do not contaminate used oil with solvents or other chemicals.

SECTION 14: Transport information

14.1. UN number Not applicable

14.2. UN proper shipping name Not regulated

14.3. Transport hazard class(es)

US DOT Label Not regulated

ADR/RID Not regulated

IMDG Not regulated

Sub Class Not applicable

14.4. Packing group Not applicable

14.5. Environmental hazards

ADR/RID Environmentally Hazardous: No - Not regulated

IMDG Marine Pollutant: No - Not regulated

14.6. Special precautions for user

No further information

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

SECTION 15: Regulatory information

National Legislation

United States:

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

SARA 311/312 (>0.1%): Not applicable

SARA 313 (>0.1%): Not applicable

CERCLA (>0.1%): Not applicable

Inventory - Canada - Non-Domestic Substances List (NDSL):

9-Octadecenoic acid (Z)-, reaction products with diethylenetriamine, oleates

California Proposition 65 Cancer: Not applicable

California Proposition 65 Developmental: Not applicable

California Proposition 65 Female Reproductive: Not applicable

California Proposition 65 Male Reproductive: Not applicable

Inventory - Australia - Inventory of Chemical Substances (AICS):

Carbamodithioic acid, dibutyl-, methylene ester

Distillate (petroleum) hydrotreated heavy naphthenic

Lithium hydroxide monohydrate

Molybdenum (IV) sulfide

Octadecanoic acid, 12-hydroxy-

Residual oils (petroleum), hydrotreated
Tall oil

**Inventory - Japan Existing and
New Chemical Substances
(ENCS):**

Carbamodithioic acid, dibutyl-, methylene ester (2-3522)
Distillate (petroleum) hydrotreated heavy naphthenic ()
Molybdenum (IV) sulfide (1-481)
Octadecanoic acid, 12-hydroxy- (2-1340; 9-1676)
Residual oils (petroleum), hydrotreated (9-1689)
Tall oil (7-977; 8-338)

**Korean Existing Chemicals
Inventory:**

Carbamodithioic acid, dibutyl-, methylene ester
Distillate (petroleum) hydrotreated heavy naphthenic
Molybdenum (IV) sulfide
Octadecanoic acid, 12-hydroxy-
Residual oils (petroleum), hydrotreated
Tall oil

**Inventory of Existing Chemical
Substances in China:**

Not applicable

**Philippines Inventory of
Chemicals and Chemical
Substances (PICCS) :**

Carbamodithioic acid, dibutyl-, methylene ester
Distillate (petroleum) hydrotreated heavy naphthenic
Lithium hydroxide monohydrate
Molybdenum (IV) sulfide
Octadecanoic acid, 12-hydroxy-
Residual oils (petroleum), hydrotreated
Tall oil

**Taiwan List of Toxic Chemical
Substances regulated under
Toxic Chemical Substances
Control Act :**

Not applicable

**EU REACH: Annex XVII,
Dangerous Substances and
Preparations:**

Distillate (petroleum) hydrotreated heavy naphthenic
Residual oils (petroleum), hydrotreated

Inventory - European Union -

**European Inventory of Existing
Commercial Chemical
Substances (EINECS):**

9-Octadecenoic acid (Z)-, reaction products with diethylenetriamine, oleates (271-549-3)
Carbamodithioic acid, dibutyl-, methylene ester (233-593-1)
Distillate (petroleum) hydrotreated heavy naphthenic (265-155-0)
Molybdenum (IV) sulfide (215-263-9)
Octadecanoic acid, 12-hydroxy- (203-366-1)
Residual oils (petroleum), hydrotreated (265-160-8)
Tall oil (232-304-6)

**EU List of Notified Chemical
Substances (ELINCS):** Not applicable

Risk Phrases
Not Classified.

SECTION 16: Other information

This information has been compiled from sources considered to be dependable and is accurate to the best of EMPI Inc's knowledge. EMPI Inc. makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use there of. EMPI Inc. assumes no responsibility for injury to recipient or third persons, or for any damage to any property and recipient assumes all such risks.

The full text of the phrases appearing in section 3 is:

This is the first revision of this SDS format, changes from previous revision not applicable.

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