

SAFETY DATA SHEET

1. Identification

Product Name Moty's M409 80W250
Chemical Family / Description Mixture substances
Intended Use Gear Oil
Company TRIBO JAPAN Co., Ltd.
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Fax +81-3-3805-5362
Emergency Telephone No. Above or Local Representative

2. Hazards Identification

Classification of the Substance or Mixture

Classification According to Regulation (EC) No. 1272/2008

Not a hazardous substance or mixture.

Classification According to Directive 67/548/EEC, 1999/45/EC

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Label Elements

Pictogram No data available.
Signal Word No data available.
Hazard Statements No data available.
Precautionary Statements
Prevention Precautionary No data available.
Response Precautionary No data available.
Pprecautionary No data available.
Disposal Precautionary No data available.

NFPA

Health No data available.
Fire No data available.
Reactivity No data available.

Other Hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition / Information on Ingredients

Substances

Ingredient Name	CAS No.	mass%
Isostearyl isostearate	41669-30-1	> 20
NPG Thickened di-2-ethylehexyl dimerate	68552-19-2	> 60
Proprietary Gear Oil Additive	Not required	< 20

Hazardous Components

No dangerous ingredients according to Regulation (EC) No. 1907/2006.

4. First Aid Measures

Description of First Aid Measures

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|---------------------|--|
| Inhalation | <ul style="list-style-type: none">• If breathed in, move person into fresh air.• If symptoms persist, call a physician. |
| Skin Contact | <ul style="list-style-type: none">• In case of contact, immediately flush skin with soap and plenty of water.• If symptoms persist, call a physician. |
| Eye Contact | <ul style="list-style-type: none">• In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| Ingestion | <ul style="list-style-type: none">• If large quantities of this material are swallowed, call a physician immediately. |

Most Important Symptoms and Effects, both Acute and Delayed

- | | |
|-----------------|---|
| Symptoms | <ul style="list-style-type: none">• None known. |
|-----------------|---|

Indication of any Immediate Medical Attention and Special Treatment Needed

- | | |
|------------------|---|
| Treatment | <ul style="list-style-type: none">• None known. |
|------------------|---|

5. Fire Fighting Measures

Extinguishing Media

- | | |
|--------------------|--|
| Suitable | <ul style="list-style-type: none">• Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.• Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable | <ul style="list-style-type: none">• High volume water jet. |
| Large Fires | <ul style="list-style-type: none">• Use water spray and Extinguishing powder. |

Special Hazards Arising from the Substance or Mixture

Specific Hazards During Fire-Fighting

- Do not use a solid water stream as it may scatter and spread fire.

Advice for Firefighters

Special Protective Equipment for Firefighters

- In the event of fire, wear self-contained breathing apparatus.

Further Information

- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

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|-----------------------------|--|
| Personal precautions | <ul style="list-style-type: none">• Use personal protective equipment. |
|-----------------------------|--|

Environmental Precautions

- | | |
|--------------------------------|---|
| Environmental Precautio | <ul style="list-style-type: none">• Prevent product from entering drains. |
|--------------------------------|---|

Methods and Material for Containment and Cleaning up

Methods for Cleaning up

- Soak up with inert absorbent material.
- Sweep up and shovel into suitable containers for disposal.

Reference to Other Sections

- None.

7. Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling

- Handle in accordance with good industrial hygiene and safety practice.

Advice on Protection Against Fire and Explosion

- Normal measures for preventive fire protection.

Hygiene Measures

- Handle in accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage, Including any Incompatibilities

Requirements for Storage Areas and Containers

- Store in original container. Keep container tightly closed in a dry and well-ventilated place.

Advice on Common Storage

- No special restrictions on storage with other products.

Other Data

- Stable under recommended storage conditions.

Specific end Use(s)

- Not available.

8. Exposure Controls and Personal Protection

Control Parameters

Domestic Regulations • No data available.

ACGIH Regulations • No data available.

Biological Exposure • No data available.

Exposure controls

Appropriate Engineering Controls

- Additional ventilation is not required.
- Handle in accordance with good industrial hygiene and safety practice.

Personal Protective Equipment

Respiratory Protection

- Use respirators tested and approved under appropriate government standards.

Eye/ Face Protection

- Use Safety glasses and equipment for eye protection tested and approved under appropriate government standards.

Skin Protection

- Handle with gloves.

Body Protection

- Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and Chemical Properties

Appearance	Brown and Clear Liquid.
Color	Light Brown.
Odour	Slight
Odour Threshold	No data available.
Melting/ Freezing Point (°C)	-32.5 (Pour Point)
Initial Boiling Point/ Range (°C)	> 200
Flash Point (°C)	200
Evaporation Rate	No data available.
Upper Explosion Limit	No data available.
Lower Explosion Limit	No data available.
Vapot Pressure @20°C (hPa)	0.0011
Vapot Density (Air=1)	No data available.
Relative Density @15°C (g/cm³)	0.926
Solubilities (Water Solubility) @20°C (g/L)	< 0.0005
Partition Coefficient (n-Octanol/ Water)	log Pow: > 7
Auto-ignition Temperature (°C)	365
Decomposition Temperature (°C)	No data available.
Viscosity @40°C (mm²/s)	374
Explosive properties	No data available.
Oxidising properties	No data available.

10. Stability and Reactivity

Reactivity	No data available.
Chemical Stability	No data available.
Possibility of Hazardous Reactions	Stable under recommended storage conditions.
Conditions to Avoid	None known.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	No data available.

11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

Acute oral toxicity

- LD₅₀ (Rat, male and female) > 2,000 mg/kg
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|------------|--|
| Method | OECD Test Guideline 401 |
| Assessment | The substance or mixture has no acute oral toxicity. |
| Remarks | No mortality observed at this dose. |
- Information given is based on data obtained from similar substances.

Acute inhalation toxicity

- LC₅₀ (Rat, male and female) > 5.7 mg/l
- Exposure time: 4 h, Test atmosphere: aerosol

Method	OECD Test Guideline 436
Assessment	The substance or mixture has no acute inhalation toxicity, No mortality observed at this dose.
Remarks	Information given is based on data obtained from similar substances.

Acute dermal toxicity

- LD₅₀ (Rat, male and female) > 2000 mg/kg bw

Method	OECD Test Guideline 402
Assessment	The substance or mixture has no acute dermal toxicity, No mortality observed at this dose.

Skin corrosion/ Irritation

- Species Rabbit
- Exposure time 72 h
- Method OECD Test Guideline 404
- Result Not irritating

Serious Eye Damage/ Eye Irritation

- Species Rabbit
 - Exposure time 72 h
 - Method OECD Test Guideline 405
 - Result Not irritating
- Test substance: 100%

Respiratory or Skin Sensitisation

- Test Type Maximisation Test (GPMT)
- Species Guinea pig
- Method OECD Test Guideline 406
- Result Did not cause sensitisation on laboratory animals.

Germ Cell Mutagenicity

Genotoxicity in Vitro

- Test Type Ames test
- Test species Salmonella typhimurium
- Method Mutagenicity (Salmonella typhimurium - reverse mu-tation assay)
- Result negative
- Test Type Chromosome aberration test in vitro
- Test species Human lymphocytes
- Method OECD Test Guideline 473
- Result negative
- GLP: yes
- Test Type In vitro mammalian cell gene mutation test
- Test species mouse lymphoma cells
- Result negative
- Remarks Information given is based on data obtained from similar substances.
- Test Type Ames test
- Method Mutagenicity (Escherichia coli - reverse mutation assay)
- Result negative

Information given is based on data obtained from similar substances.

Aspiration Toxicity

- No data available.

Further Information

- Remarks No data available.

12. Ecological Information

Toxicity

Toxicity to Fish

- LL₅₀ (Cyprinus carpio (Carp)) > 100 mg/L
Exposure time: 96 h, GLP: yes, Test Type: static test
Method OECD Test Guideline 203
Remarks No toxicity at the limit of solubility.

Toxicity to Daphnia and Other Aquatic Invertebrates

- EL₅₀ (Daphnia magna (Water flea)) > 86 mg/L
Exposure time: 48 h, GLP: yes, Test Type: static test
Method OECD Test Guideline 202
Remarks No toxicity at the limit of solubility.

Toxicity to algae

- EL₅₀ (Pseudokirchneriella subcapitata (green algae)) > 100 mg/L
Exposure time: 72 h, GLP: yes, Test Type: static test
Method OECD Test Guideline 201
Remarks No toxicity at the limit of solubility.

Toxicity to fish (Chronic toxicity)

- Remarks Not applicable.

Toxicity to Daphnia and Other Aquatic Invertebrates (Chronic Toxicity)

- Remarks Not applicable.

Toxicity to Soil Dwelling Organisms

- Remarks Not applicable.

Plant Toxicity

- Remarks Not applicable.

Persistence and Degradability

Biodegradability

- Inoculum activated sludge
Result Readily biodegradable
Biodegradation: 68.1 ~ 71.7 %, Exposure time: 28 d
Method OECD 301B

Bioaccumulative Potential

- Remarks No data available.

Mobility in Soil

Distribution Among Environmental Compartments

- Remarks No data available.

Results of PBT and vPvB Assessment

Assessment

- This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other Adverse Effects

Environmental fate and pathways

- None.

Additional Ecological Information

- Remarks No data available.

13. Disposal Considerations

Waste Treatment Methods

Product

- Dispose of in accordance with local regulations.

Contaminated packaging

- Empty remaining contents.
- Empty containers should be taken to an approved waste handling site for recycling or disposal.

Notices

- Take into account the precautions by waste management regulations.

14. Transport Information

UN Number

Not regulated as a dangerous good.

UN Proper Shipping Name

Not regulated as a dangerous good.

Transport Hazard Class (es)

Not regulated as a dangerous good.

Packing Group

Not regulated as a dangerous good.

Environmental Hazards

Not regulated as a dangerous good.

Special Precautions for User

- Remarks Not classified as dangerous in the meaning of transport regulations.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory Information

Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture

Water contaminating class (Germany)

- nwg Not water endangering.

The components of this product are reported in the following inventories:

TSCA

- All chemical substances in this product are listed on the TSCA Inventory.

REACH

- On the inventory, or in compliance with the inventory.

CH INV

- On the inventory, or in compliance with the inventory.

DSL

- All components of this product are on the Canadian DSL.

AICS

- On the inventory, or in compliance with the inventory.

NZIoC

- On the inventory, or in compliance with the inventory.

ENCS

- On the inventory, or in compliance with the inventory.

ISHL

- On the inventory, or in compliance with the inventory.

- | | |
|-----------------------------------|--|
| KECI | • On the inventory, or in compliance with the inventory. |
| IECSC | • On the inventory, or in compliance with the inventory. |
| Chemical Safety Assessment | • This information is not available. |

16. Other Information

Control No.

Date of Revised

November 12, 2016

Revisions

- This SDS is the first version in EU format, using classification according to the CLP Regulation.

Abbreviations

- DNEL, derived no-effect level; DMEL, derived minimum effect level; EL, effect level; LC, lethal concentration; LD, lethal dose; NOAEL, noobserved-adverse-effect level; NOEL, no-observed-effect level; OECD, Organisation for Economic Co-operation and Development; PBT, persistent, bioaccumulative, and toxic; vPvB, very persistent, very bioaccumulative.

References

- Annex VI of Regulation 1272/2008 on Harmonised Classification and Labelling for Certain Hazardous Substances (CLP Regulation).
- Information on Registered Substances; Chemical Substance Search; European Chemicals Agency (ECHA), available at the ECHA website: <http://echa.europa.eu>.
- Supplier safety data sheet.

Basis of Classification

- The recommendations presented in this Safety Data Sheet were obtained from actual test data when available, comparison with similar products, component information from suppliers and from recognized codes of good practice.

Disclaimer:

The data and recommendation presented herein are based on our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made, however, and the products discussed are distributed without warranty, express or implied, and the person receiving them shall make his own determination of the suitability thereof for his particular purpose.