

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2013

Vers. N.: 7

Revision: 22.10.2013

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

- Product identifier
  - Trade name: MAKITA HAMMER GREASE/PASTE - P 08361-50
  - Material Safety Data Sheet: 08361
  - Relevant identified uses of the substance or mixture and uses advised against :
  - Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - Product category PC24 Lubricants, greases, release products
  - Process category
    - PROC10 Roller application or brushing
    - PROC17 Lubrication at high energy conditions and in partly open process
  - Environmental release category
    - ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
    - ERC8a Wide dispersive indoor use of processing aids in open systems
    - ERC8d Wide dispersive outdoor use of processing aids in open systems
  - Use of the substance / the preparation : EP-lubricant grease on the basis of molybdenum disulphide.
  - USAGES : Industrial.
  - Dosage : As supplied
  - Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    - AR.I. Chimica sas
    - Via Soperga,32
    - 20127 - Milano
  - E-mail of the M.S.D.S. responsible person : AR.I. Chimica srl
  - Emergency telephone number:
    - ANTITOXIN CENTRE AT NIGUARDA HOSPITAL IN MILANO - Telephone: ++39 02 66101029
- Tel.(02)26117342  
Fax (02)2619750 e-mail :info@arichimica.it  
reme@arichimica.it

## 2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008  
The product is not classified according to the CLP regulation.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC  
Not subject to classification according to Directive 67/548/EC
- Classification system:  
The classification is in line with current EEC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies and experimental results.
- Label elements
- Labelling according to EU guidelines:  
Observe the normal safety regulations when handling chemicals  
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
- Code letter and hazard designation of product:  
  
not applicable
- Hazard-determining components of labelling: see point 3
- Safety phrases:  
60 This material and its container must be disposed of as hazardous waste.
- Other hazards :
- Results of PBT and vPvB assessment  
Accordance to Annex XIII of Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Restriction of chemical substances (see section 3 and 2): does not meet the criteria for classification as PBT and vPvB therefore - not applicable.  
Use according to good working practices, avoiding to disperse the product into the environment.
- PBT: Not applicable.
- vPvB: Not applicable.

## 3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture consisting of the following components.

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**- Components :**

CAS: 74869-21-9 EINECS: 278-011-7	lubricating greases as a mixture containing 62,9 % of paraffinic regenerated and twice refined mineral oil, lithium soaps from natural substances, EP additives. substance with a Community workplace exposure limit	96.0%
CAS: 1317-33-5 EINECS: 215-263-9	molybdenum disulphide substance with a Community workplace exposure limit	4.0%

- **SVHC** : Any SVHC present in the mixture.**- Additional information**

Mineral lubricating oil with extract of DMSO&lt;3%weight(method IP 346).According UE directive 94/69 note L not to be classified as cancerous.

For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

**- Description of first aid measures****- General information :**

No special measures required.

Take affected persons into the open air.

- **After inhalation** : Supply fresh air; consult doctor in case of symptoms.- **After skin contact** : The product is not skin irritating.- **After eye contact** : Rinse opened eye for several minutes under running water.- **After swallowing** : Instantly call for doctor.**- Information for doctor****- Indication of any immediate medical attention and special treatment needed :**

Treatment of symptomatic ( decontamination, vital functions ).

### 5 Firefighting measures

**- Extinguishing media**- **Suitable extinguishing agents** : Use fire fighting measures that suit the environment.**- Unsuitable extinguishing agents:**

Attention:

The use of water as an extinguishing agent may not be effective, or even counterproductive, for the immiscibility with the mixture, which could in fact float on the fire spreading to other areas.

**- Special hazards arising from the substance or mixture :**

Can be released in case of fire

Carbon monoxide (CO)

Unburned hydrocarbons.

Sulphur dioxide (SO<sub>2</sub>)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

Avoid inhalation of fumes evolved in a fire, use self-contained breathing apparatus and protective clothing, keep at a safe distance.

- **Advice for firefighters** : In case of fire wear a respirator autonomus and full protective clothing.- **Protective equipment**: Wear self-contained breathing apparatus.- **Additional information** : Cool endangered containers with water spray jet.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** : Ensure adequate ventilation- **Environmental precautions**: No special measures required.**- Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**- Reference to other sections :**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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## 7 Handling and storage

- **Handling :**  
Avoid contact with eyes.  
Follow the normal hygiene rules.
- **Precautions for safe handling :** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage :** Store the packaging on solid structures.
- **Information about storage in one common storage facility:**  
Do not store together with oxidizing and acidic materials.
- **Storage class**
- **Class according to regulation on inflammable liquids (VCI):** Is not subject to the provisions.
- **Specific end use(s) :** See point 1 identified use.

## 8 Exposure controls/personal protection

- **Technical provisions:**  
Aerate work-rooms where the product is used.  
Avoid production and diffusion of fogs and aerosols by providing barriers to machines and by using ventilation/localised suction.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**74869-21-9 lubricating greases as a mixture containing 62,9 % of paraffinic regenerated and twice refined mineral oil, lithium soaps from natural substances, EP additives.**

WEL Long-term value: 5 (oil mist) mg/m<sup>3</sup>

**1317-33-5 molybdenum disulphide**

WEL Short-term value: 20 mg/m<sup>3</sup>  
Long-term value: 10 mg/m<sup>3</sup>  
as Mo

- **Exposure controls**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**  
In case of correct use not necessary.  
For the permanent contact in work areas with high risks of injury (mechanical hazard) no recommendation for a suitable glove material can be given.  
These information is based on tests carried out suppliers of raw material, data from literature and information given by producers of gloves or which by analogy can be concluded from similar compositions.
- **For the permanent contact gloves are suitable:**



Oil resistant gloves.

- **Material of gloves**  
Nitrile rubber, NBR  
Recommended material thickness :  $\geq 0,38$  mm
- **Penetration time of glove material**  
Minutes  $\geq 480$  (penetration according to standard EN 374-3 :  
Level of penetration = ND - Index of egradation = 1 )  
INDEX OF PENETRATION:  

6 = ND	= 0,0	$\mu\text{g}/\text{cm}^2/\text{minute}$	= 0	n° drops/hour
5 = E	$\leq 0,9$	$\mu\text{g}/\text{cm}^2/\text{minute}$	= 0 - 1/2	n° drops/hour
4 = VG	= 0,9	$\mu\text{g}/\text{cm}^2/\text{minute}$	= 1 - 5	n° drops/hour
3 = G	$\leq 90$	$\mu\text{g}/\text{cm}^2/\text{minute}$	= 1 - 50	n° drops/hour
2 = F	$\leq 900$	$\mu\text{g}/\text{cm}^2/\text{minute}$	= 51 - 500	n° drops/hour
1 = P	$\leq 9000$	$\mu\text{g}/\text{cm}^2/\text{minute}$	= 501 - 5000	n° drops/hour

  
INDEX OF RESISTANCE TO DEGRADATION:  
1 = TOP = Degradation can be neglected.  
2 = GOOD = Weak degradation.

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3 = MODERATE = Moderate degradation.

4 = BAD = Significant degradation.

**- As protection from splashes gloves made of the following materials are suitable:**

If only a short-time loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

**- Eye protection:**

Wear security glasses whenever there is a possibility of contact with the product.



Gauze goggles EN 166 F CE.

**- Body protection:** In case of correct use not necessary.

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties****- General Information****- Appearance****Form:**

Pasty

**Colour:**

Black

**- Odour:**

Characteristic

**- Odour threshold:**

2 - 5%

**- Important informations on protection of environment and on safety:**

VALUE/RANGE UNIT METHOD

**- pH-value:**

Not determined.

**- Change in condition****Melting point/Melting range:**

Not determined

**Boiling point/Boiling range:**

&gt;250 °C (calculated)

**- Flash point:**

180 °C (ASTM-D-92)

**- Ignition temperature:****Decomposition temperature:**

Not determined.

**- Self-inflammability:**

Product is not selfigniting.

**- Danger of explosion:**

Product is not explosive.

**- Critical values for explosion:****Lower:**

Not determined.

**Upper:**

Not determined.

**- Vapour pressure:**

Not determined.

**- Density at 20 °C**1.029 g/cm<sup>3</sup> (ASTM-D-70)**- Relative density**

Not determined.

**- Vapour density**

Not determined.

**- Evaporation rate**

Not determined.

**- Solubility in / Miscibility with****Water:**

Not miscible or difficult to mix

**- Partition coefficient (n-octanol/water):**

Not determined.

**- Viscosity:****dynamic:**

Not determined.

**- Solvent content:****Organic solvents boiling range ≤250 °C :** 0.0 % (calculated)**Solids content:**

4.0 % (calculated)

**- Other information**

Radioactivity: not radioactive.

## 10 Stability and reactivity

**- Reactivity :** No dangerous reaction if properly used and stored.

**- Chemical stability :**

The product is stable under the conditions of storage and use recommended. See Chapter 7

**- Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**- Possibility of hazardous reactions :** No dangerous reaction if properly used and stored.

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- **Conditions to avoid** : No further relevant information available.
- **Incompatible materials**: Oxidising agents.
- **Hazardous decomposition products**: see point 5

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

### - LD/LC50 values that are relevant for classification :

Oral	LD100	2000 mg/kg (-) value calculate on the mixture (according GHS and CLP)
Dermal	LD50	2000 mg/kg (-) value calculated on the mixture (according GHS and CLP)
Inhalative	LC50/4h	70500 mg/m <sup>3</sup> (-) value calculated on the mixture (according GHS) - 0 (according CLP)

**74869-21-9 lubricating greases as a mixture containing 62,9 % of paraffinic regenerated and twice refined mineral oil, lithium soaps from natural substances, EP additives.**

Oral	LD50	2000 mg/kg (rats)
Dermal	LD50	2000 mL/Kg (rabbits)

### **1317-33-5 molybdenum disulphide**

Oral	LD50	>2000 mg/kg (rats)
Dermal	LD50	>2000 mg/kg (rabbits)
Inhalative	LC50/4h	>2820 mg/L (rats)

- **Primary irritant effect:**
- **on the skin:** No irritation.
- **on the eye:** No irritation.
- **Sensitization:** No sensitizing effect is known.
- **Inhalation** : Extended exposure to vapours and fogs can lead to irritations of the breathing apparatus.
- **Swallowing** :  
No risk under normal conditions of use.  
Can lead to irritations of the digestive tract with vomiting, nausea and diarrhoea.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12 Ecological information

Use according to good working practices, avoiding to disperse the product into the environment.

### - Toxicity

#### - Aquatic toxicity:

<b>1317-33-5 molybdenum disulphide</b>
LC0 >750 mg/L (Salmo gairdneri)

- **Persistence and degradability** : Heavily biodegradable
- **Behaviour in environmental systems:**  
Not dispersible in water.  
Not available dates on the environmental mobility of the mixture. ( for data missing on substances not yet communicated by our Suppliers ).
- **Bioaccumulative potential** :  
No data are available on the bioaccumulation potential of the mixture ( for data missing on substances not yet communicated by our Suppliers ).
- **Mobility in soil** :  
No data is available on the mobility in the soil of the mixture ( for data missing on substances not yet communicated by our Suppliers )..

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- **Ecotoxicological effects:**  
No data is available on the ecotoxicity of the mixtures (for data missing on substances not yet communicated by our Suppliers) ..
- **Additional ecological information:**
- **General notes:**  
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into soil.
- **Results of PBT and vPvB assessment**  
According to Annex XIII of Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Restriction of chemical substances (see section 3 and 2): does not meet the criteria for classification as PBT and vPvB therefore - not applicable.  
Use according to good working practices, avoiding to disperse the product into the environment.
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects :** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods :**  
When not contaminated by products of different kind, the rejected parts can be considered as special wastes; on the contrary they can be considered as toxic-harmful in full compliance of the existing laws (DPR- 915/82 and subsequent modifications).
- **Recommendation** Delivery of waste oil only to officially authorized collectors.
- **Waste disposal key number:**  
ACC = Drum made of welded metal sheet.  
EWC waste code refers to emptied containers : 15 01 10\*
- **EWC European waste catalogue code reported to the mixture or substance :**  
According to the European Waste Catalogue, Waste Codes are not specific to the article, but application specific. Waste codes should be assigned according to the application that was made of this article.
- **Uncleaned packagings:**  
It is inadvisable to take away the identification labels or the danger symbols from the emptied containers.  
After a suitable washing packaging can be recycled.
- **Recommendation:**  
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.  
This material and its container must be disposed of as hazardous waste.  
Dispose of fully emptied product and containers delivering them to companies with a license for the disposal of special waste according to DPR 691/82 (Compulsory consortium of old oil) and those which are contained in the provisions of decree n°22/97 (decree Ronchi).
- **Recommended cleaning agent:** Solvent naphtha

### 14 Transport information

- |  |                                   |
|--|-----------------------------------|
| - <b>UN-Number</b>   |                                   |
| - <b>ADR, ADN, IMDG, IATA</b>  | Is not subject to the provisions. |
| - <b>UN proper shipping name</b>   |                                   |
| - <b>ADR, ADN, IMDG, IATA</b>  | Is not subject to the provisions. |
| - <b>Transport hazard class(es)</b>  |                                   |
| - <b>ADR, ADN, IMDG, IATA</b>  |                                   |
| - <b>Class</b>   | Is not subject to the provisions. |
| - <b>Packing group</b>   |                                   |
| - <b>ADR, IMDG, IATA</b>   | Is not subject to the provisions. |
| - <b>Environmental hazards:</b>  |                                   |
| - <b>Marine pollutant:</b>   | No                                |
| - <b>Special precautions for user</b>  | Not applicable.                   |
| - <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                   |

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- UN "Model Regulation": -  
 - EU Regulation 927/2012 - number of Customs code : 3403 19 10

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Code letter and hazard designation of product:  
     not applicable
- Safety phrases:  
     60 This material and its container must be disposed of as hazardous waste.
- Chemical safety assessment  
     Authorisation under the REACH Regulation (Regulation EC n° 1907/2006) substances not present in the list of substances of concern (SVHC) candidate to the authorisation.
- National regulations:
- Technical instructions (air):
- EU-VOC in %: 0.00 %
- Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.
- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 - 59 ( CANDIDATE LIST No 140 of 20/06/2013 ) :  
     Are not present substances SVHC listed in " CANDIDATE LIST No 140 of 20/06/2013 "
- RoHS Regulations: Compliant, there are no RoHS substances listed in Regulation.
- Further reference provisions:  
     Decree 336/94 Table of professional diseases in industry.  
     Detergent regulation 648/2004/EEC  
     Decree 136/83 Biodegradation of detergents.  
     Directive 2008/47/EEC aerosols  
     Regulation 1907/2006/EEC (REACH)  
     Regulation 1272/2008/EEC ( CLP/GHS )  
     Regulation 790/2009/EEC  
     Regulation (UE) N. 453/2010 - 20/05/2010
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

The user is obliged to make sure that the information contained in the data sheet and regarding the specific use of the product is appropriate and complete. Furthermore the user is also obliged to comply with the described safety standards. The data and the information are based on available literature and our specific knowledge at the date of the compilation and exclusively refer to the product indicated below.  
 Furthermore the characteristics mentioned in this document shall not constitute contractual specifications.  
 This safety data sheet annuls and replaces the previous edition.

- Declaration of conformity:  
     The present safety data sheet corresponds to the provisions of the ministerial decree dated 04/04/97 regarding the compilation of safety data sheet updated to the 31° amendment of the EC directive 2009/2
- Department issuing data specification sheet: AR.I Chimica srl
- Contact:  
     Merighi Ing. Renzo - reme@arichimica.it  
     The present information (without signature) is issued under control.
- Abbreviations and acronyms :  
     ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
     IMDG: International Maritime Code for Dangerous Goods  
     IATA: International Air Transport Association  
     GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
     VCI: Verband der chemischen Industrie, Deutschland (German chemical industry association)  
     EINECS: European Inventory of Existing Commercial Chemical Substances  
     ELINCS: European List of Notified Chemical Substances  
     CAS: Chemical Abstracts Service (division of the American Chemical Society)  
     VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)  
     VOC: Volatile Organic Compounds (USA, EU) (=COV)  
     MAL-Code: Måle teknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
     PNEC: Predicted No-Effect Concentration (REACH)  
     LC50: Lethal Concentration in atmosphere for 50% of animal test.

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LD50: Lethal dose for 50% test animal  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 STEL: Short Term Exposure Limit  
 TLV: Threshold Limit Value  
 TRGS: Technische Regeln für Gefahrstoffe  
 TWA: Time Weighted Average  
 VLA: Valore Limite Ambientale  
 WEL: Workplace Exposure Limit  
 VLE: Exposure Limit Value  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent very Bioaccumulative  
 ASTM: American Society for Testing and Materials  
 CLP: Classification, Labelling and Packaging  
 REACH: Registration, Evaluation, Authorization of Chemicals  
 VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe = Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes  
 BLEVE: Boiling Liquid Expanding Vapour Explosion  
 SVHC: Substance of Very High Concern  
 PNEC: Predicted No Effect Concentration (Risk Assessment)  
 STP: Sewage Treatment Plant  
 ACGIH: American Conference of Governmental Industrial Hygienists.  
 STEL/C: Short-Term Exposure Limit/Ceiling.  
 VL: Limit Value  
 SSOG: Stazione Sperimentale Oli Grassi ( Milano Italia)  
 LEL: Lower Explosive Limit  
 UEL: Upper Explosive Limit  
 BW: Body weight  
 NOAEL: No Observed Adverse Effects Level  
 RoHS: Restriction on the use of Hazardous Substances.  
 RTECS: Registry of Toxic Effects of Chemical Substances.  
 NA: Not applicable  
 RCP: Reciprocal Calculation Procedure.  
 NOAEC: No Observed Adverse Effects Concentration  
 CER: Catalogo Europeo Rifiuti.  
 EAK: Europäische Abfälle Katalog.  
 EWC: European Waste Catalogue.  
 NOAEL: No Observed Adverse Effects Concentration  
 OECD: Organisation for Economic Co-operation and Development.  
 ISO: International Organisation for Standardisation.

**- Sources :**

NIOSH/RTECS - Registry of Toxic Effects of Chemical Substances.  
 I.N.R.S. - Réaction Chimiques Dangereuses.  
 CESIO - Classification and labelling of anionic, nonionic surfactants (1990).  
 Aldrich - Library of Chemical Safety Data.  
 Patty - Industrial Hygiene and Toxicology.  
 A.C.G.I.H. - Documentation of the Threshold Limit Values.

**- \* Data changed compared to the previous version : Changed.**

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