

**Multi-Basic 2 M**

Material number 72684

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name: Multi-Basic 2 M

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

General use: Lubricating grease

**1.3 Details of the supplier of the safety data sheet**

Company name: MATO GmbH &amp; Co.KG

Street/POB-No.: Benzstr. 16-24

Postal Code, city: 63165 Mühlheim/Main  
Germany

WWW: www.mato.de

E-mail: mato.germany@mato.de

Telephone: +49 (0)6108-906-0

Telefax: +49 (0)6108-906-120

Dept. responsible for information:

Herr Gerold Isokeit,

Telephone: +49 (0)6108-906-135, e-mail isokeit@mato.de

**1.4 Emergency telephone number****GIZ-Nord, Göttingen, Germany,****Telephone: +49 551-19240****Transport:****CONSULTANK Lutz Harder GmbH (Contract QUALI003)****Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

This mixture is classified as not hazardous.

**2.2 Label elements****Labelling (CLP)**

Hazard statements: not applicable

Precautionary statements: not applicable

**2.3 Other hazards**

Inhaling can lead to irritations of the respiratory tract and mucous membrane. Frequent or prolonged skin contact may cause irritation and inflammation. Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Upon direct contact with eyes may cause burning, tearing, redness. Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

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**SECTION 3: Composition / information on ingredients**

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterisation: Lithium - Lubricating grease: mineral oil and additives

Additional information: Information about mineral oil: &lt; 3% dimethylsulfoxide (DMSO) extract (IP 346)

**SECTION 4: First aid measures****4.1 Description of first aid measures**

In case of inhalation: Move victim to fresh air, provide oxygen as needed. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Then cream your skin. Take off contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth. Do not induce vomiting. In case of vomiting, lay at least head on side. Seek medical treatment in case of troubles.

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

Inhaling can lead to irritations of the respiratory tract and mucous membrane. Frequent or prolonged skin contact may cause irritation and inflammation.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media:

Alcohol resistant foam, extinguishing powder, carbon dioxide, sand.

Extinguishing media which must not be used for safety reasons:

Full water jet

**5.2 Special hazards arising from the substance or mixture**

This material is combustible, but will not ignite readily. The product may release harmful vapours by heating. Vapours can form explosive mixtures with air.

In case of fire may be liberated: Toxic gases/vapours, hydrocarbons, lithium compounds, carbon monoxide and carbon dioxide.

**5.3 Advice for firefighters**

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

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Additional information: Hazchem-Code: -  
Heating causes rise in pressure with risk of bursting. Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to knock down vapours. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Eliminate all ignition sources if safe to do so. Avoid contact with the substance. Avoid formation of aerosols/vapours. Do not breathe vapour/aerosol. If vapours form, use respiratory protection. Ensure adequate ventilation, especially in confined areas.

**6.2 Environmental precautions**

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.

**6.3 Methods and material for containment and cleaning up**

Plug leak if safely possible. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Final cleaning. Dispose of waste according to applicable legislation.

Additional information: Special danger of slipping by leaking/spilling product.

**6.4 Reference to other sections**

Refer additionally to section 8 and 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid prolonged, intensive skin contact and contact with the eyes. Avoid formation of aerosols/vapours. Do not breathe vapour/aerosol. If vapours form, use respiratory protection. Don't put cleaning rags fouled by oil into trousers pockets. When using do not eat, drink or smoke.

Precautions against fire and explosion:

Usual measures for fire prevention. Keep away from heat sources, sparks and open flames. Use only non-sparking tools. Take precautionary measures against static discharges. Do not weld.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storerooms and containers:

Keep container tightly closed in a cool place. Store in a dry place. Do not drop, drag or bang the container.

Store at room temperature.

Protect from frost. Keep away from incompatible materials.

Hints on joint storage:

Do not store together with strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

**7.3 Specific end use(s)**

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

Type	Limit value
Great Britain: MEL/OES-STEL	10 mg/m <sup>3</sup> Oil mist
Great Britain: MEL/OES-TWA	5 mg/m <sup>3</sup> Oil mist
Ireland: 8 hours	5 mg/m <sup>3</sup> Oil mist mineral, inhalable fraction

### 8.2 Exposure controls

Provide for good room ventilation, suctioning/venting.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: If vapours form, use respiratory protection.

Use filter type A (= against vapours of organic substances) according to EN 14387.

Have a breathing apparatus that is not dependent on the circulating air ready for emergencies.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber - Layer thickness:  $\geq 0.38$  mm

Breakthrough time:  $>480$  min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid prolonged, intensive skin contact and contact with the eyes. Change contaminated clothing. Avoid formation of aerosols/vapours. Do not breathe vapour/aerosol. Have eye wash bottle or eye rinse ready at work place. After work, wash hands and face.

### Environmental exposure controls

Do not allow to penetrate into soil, waterbodies or drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Form: semi-solid, smooth Colour: yellow-brown
Odour:	like petroleum
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	$> 100$ °C
Evaporation rate:	No data available
Flammability:	This material is combustible, but will not ignite readily.

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Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 25 °C: <= 1 g/mL
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Product is not explosive. In case of heating: Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available

## 9.2 Other information

Additional information: No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to section: Possibility of hazardous reactions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

The product may release harmful vapours by heating. Vapours can form explosive mixtures with air.

Hazardous polymerisation: will not occur.

No dangerous reactions with proper and specified storage and handling

### 10.4 Conditions to avoid

Excessive heating. Keep away from sources of ignition. Avoid formation of aerosols/vapours.

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

In case of fire may be liberated: Toxic gases/vapours, hydrocarbons, lithium compounds, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

- Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.  
Acute toxicity (oral): Based on available data, the classification criteria are not met.  
ATEmix calculated: 5580 mg/kg  
Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix calculated: 5580 mg/kg  
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
Eye damage/irritation: Based on available data, the classification criteria are not met.  
Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.  
Skin sensitisation: Based on available data, the classification criteria are not met.  
Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.  
Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.  
Aspiration hazard: Based on available data, the classification criteria are not met.
- Other information: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal.  
Used oil: Evidence for possible carcinogenic effects in experimental animals existent.

**Symptoms**

- In case of inhalation:  
Overheating released mist or vapours can irritate the respiratory tracts.  
Other symptoms: Cough, respiratory complaints, dizziness, nausea, vomiting, headache
- In case of ingestion:  
Following symptoms can occur depending on degree of seriousness: Nausea, gastrointestinal complaints, vomiting.
- After contact with skin:  
Frequent or prolonged skin contact may cause irritation and inflammation.  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
Other symptoms: skin rash, irritation.  
Injection of oil into the skin may cause permanent local skin damage. There may be no signs of initial injury or pain.
- After eye contact:  
Product can cause slight irritation. Upon direct contact with eyes may cause burning, tearing, redness.

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**SECTION 12: Ecological information****12.1 Toxicity**

Further details: No data available

**12.2. Persistence and degradability**

Further details: Product is not readily biodegradable.

**12.3 Bioaccumulative potential**

Significant bioaccumulation potential is not to be expected.

Partition coefficient: n-octanol/water:

No data available

**12.4 Mobility in soil**

Floats on the water.

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

General information: Do not allow to enter into ground-water, surface water or drains.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**Waste key number: 13 08 99\* = Oil wastes not otherwise specified  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

**Contaminated packaging**

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

**SECTION 14: Transport information****14.1 UN number**ADR/RID, IMDG, IATA-DGR:  
not applicable**14.2 UN proper shipping name**ADR/RID, IMDG, IATA-DGR:  
Not restricted**14.3 Transport hazard class(es)**ADR/RID, IMDG, IATA-DGR:  
not applicable

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**14.4 Packing group**

ADR/RID, IMDG, IATA-DGR:

not applicable

**14.5 Environmental hazards**

Marine pollutant:

no

**14.6 Special precautions for user**

No dangerous good in sense of these transport regulations.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**

Hazchem-Code:

-

No data available

**15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.

**SECTION 16: Other information****Further information**

Date of first version: 26/11/2015

**Department issuing data sheet**

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.