

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



BECKER LUBE M 32

Revision Date: 27.01.2016

Print Date: 28.04.2021

SAFETY DATA SHEET

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1. Identification of the Substance and Company

Product name: BECKER LUBE M 32

Use of the substance: Machine oil

Details of the supplier of the safety data sheet

Supplier : **Gebr. Becker GmbH**
Hölker Feld 29-31
D-42279 Wuppertal

Telephone : (+49) 0202 697-0
Telefax : (+49) 0202 666-0855
Email Contact for : If you have any enquiries about the content of this SDS
Safety Data Sheet : please email info@becker-international.com

2. Composition/Information on Ingredients

Number			Concentration [%]	Substance name	Classification compliant with the Regulation (EC) No. 1272/2008
registration	CAS	EC			
01-2119565113-46-0000	128-37-0	204-881-4	≤ 0,60	2,6-di-tert-butyl-p-cresol	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 M acute = 1 M chronic = 1

3. Hazards Identification

Classification of the substance or mixture:	Classification compliant with the Regulation (EC) No. 1272/2008 [CLP]: Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.
Label elements:	Labelling in accordance with the Regulation (EC) No. 1272/2008 [CLP]: H412: Harmful to aquatic life with long lasting effects. P273: Avoid release to the environment. P501: Dispose of the contents / container to the waste storage.
Other hazards:	The mixture does not meet the criteria for PBT or vPvB. In the case of any failure of equipment working at high temperatures and pressures, it is possible for the product to penetrate through the skin into the subcutaneous tissues; When working with hot product there is a risk of thermal burns. The product may cause irritation of the respiratory system, where present in the form of oil mist or in the form of a vapour, or after ingestion. Research conducted for similar products have shown no harmful effects on the eyes or shown minimal irritation.

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4. First aid Measures

Description of First Aid Measures

Inhalation:	<p>Inhalation is unlikely due to the low vapour pressure of the substance at ambient temperature.</p> <p>Symptoms: respiratory irritation caused by excessive exposure to exhausts, mists or vapours.</p> <p>In the event of symptoms caused by the inhalation of exhausts, mists or vapours of the product: While it is safe, move the injured to a quiet and well-ventilated place. If the patient is unconscious and:</p> <ul style="list-style-type: none">- The injured is not breathing - Make sure there are no obstructions in breathing and provide artificial respiration performed by trained personnel. If necessary, make a heart massage and get medical attention.- If the injured is breathing - Place the injured in the recovery position. If oxygen is needed. If difficulty in breathing is persistent, ask your doctor.
Skin contact:	<p>Symptoms: dry skin, irritation in the case of repeated or prolonged exposure. Contact with the product at high temperature can cause burns.</p> <p>Remove contaminated clothing and shoes and dispose of them in a safe manner. Wash contaminated body parts with soap and water.</p> <p>In the event of the occurrence and persistence of the irritation, swelling or redness of the skin, ask your doctor.</p> <p>When using high pressure percutaneous injections may occur. In the case of injury caused by high pressure immediately seek medical attention. Do not wait for the symptoms to become worse.</p> <p>Light burns should be cooled: Hold the burned body part under cold water for at least five minutes or until relieving pain. Be sure to prevent hypothermia. Do not put ice on the burns. Carefully remove the non-sticking clothing. DO NOT attempt to remove portions of clothing stuck to the burned skin. Clothing around these places should be cut.</p> <p>In any case of serious burns ask your doctor.</p>
Eye contact:	<p>Symptoms: slight irritation. Contact with the product at high temperature can cause burns.</p> <p>Carefully rinse with water for several minutes. If it is possible and easy to do, remove contact lenses of the injured.</p> <p>Continue to rinse.</p> <p>In the event of the occurrence and persistence of irritation, blurred vision, or swelling, please refer to the specialist.</p> <p>In the case of eye splash with hot product, they must be cool immediately under cold, running water to dissipate the accumulated heat. Immediately consult your doctor on the assessment of the condition and subsequent treatment of the injured.</p>
Ingestion:	<p>Symptoms: expected not many or no symptoms. Nausea and diarrhoea may possibly appear.</p> <p>If swallowed, always assume that inhalation/aspiration has taken place. Ask for help from a specialist or refer the patient to the hospital. Do not wait for the symptoms to become worse.</p> <p>Do not induce vomiting because there is a risk of aspiration.</p> <p>Do not give anything by mouth to an unconscious person.</p> <p>If vomiting occurs, the injured's head should be kept low to avoid penetration of vomit into the lungs (aspiration).</p> <p>After the cessation of vomiting, put the injured in the recovery position, with legs slightly raised.</p>

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Most important symptoms and effects, both acute and delayed

A brief summary of information on acute and delayed symptoms and effects of exposure: Not determined.

Indication of any immediate medical attention and special treatment needed

Information on clinical indications and medical monitoring for delayed effects: Not determined.

5. Fire Fighting Measures

Extinguishing media:	<ul style="list-style-type: none">- Foam (trained personnel only)- Water mist (trained personnel only)- Dry chemical powder- Carbon dioxide- Other inert gases (according to the law)- Sand or earth
Unsuitable extinguishing media:	<p>Do not spray directly on the burning product; substances can cause splatter and spread of fire.</p> <p>One should prevent the simultaneous use of foam and water on the same surface as water destroys the foam.</p>
Special hazards arising from the substance or mixture:	<p>Products of combustion:</p> <p>Incomplete burning often causes a complex mixture of solid particles floating in the air, including carbon monoxide and unidentified organic and inorganic compounds.</p>
Advice for firefighters:	<p>In the case of a large fire or fires in confined or poorly ventilated areas one should also use full fire resistant protective clothing and a self-contained breathing apparatus with full face mask operating on the principle of hypertension.</p>

6. Accidental Release Measures

General information:	<p>Stop or control the leak at source if it is safe. Avoid direct contact with the spilled material. Stand against the wind.</p> <p>Keep personnel not participating in the action away from the site of the leak. Alert emergency personnel.</p> <p>With the exception of small spills. If possible, the feasibility of any action in each case should be evaluated and assessed by a properly trained and competent person in charge of rescue operations.</p> <p>If it is safe, eliminate all sources of ignition (e.g. electricity, sparks, fire, torches). If necessary, notify relevant authorities in accordance with applicable regulations.</p>
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Personal precautions, protective equipment and emergency procedures:	<p>For non-emergency personnel: Keep personnel not participating in the action away from the site of the leak. Alert emergency personnel. Stand against the wind.</p> <p>For emergency responders: Stop or control the leak at source if it is safe. Avoid direct contact with the spilled material. Stand against the wind. Keep personnel not participating in the action away from the site of the leak. Alert emergency personnel. If possible, the feasibility of any action in each case should be evaluated and assessed by a properly trained and competent person in charge of rescue operations. If it is safe, eliminate all sources of ignition (e.g. electricity, sparks, fire, torches). If necessary, notify relevant authorities in accordance with applicable regulations.</p> <p>Clothing and equipment: Small spills: usually adequate standard anti-static clothing is appropriate. Significant spills: full suit of anti-static material resistant to chemical agents. Work gloves provide effective protection against chemicals, especially aromatic hydrocarbons. Note: gloves made of polyvinyl chloride are not waterproof and therefore not suitable for use in an emergency. Hard hat. Anti-static, anti-slip safety shoes (long or short). Safety goggles or face shield, if splash or other eye contact with them is possible or expected. Respiratory protection will be necessary only in special cases (e.g. the formation of mists). Depending on the amount of spilled material and the estimated range of exposure one can use half-mask or full mask respirator with combined dust filters / filter vapours of organic substances or self-contained breathing apparatus. If you cannot fully assess the situation, or if there is a risk of oxygen deficiency, only self-contained breathing apparatus should be used.</p>
Environmental precautions:	Prevent product from entering sewers, rivers and other bodies of water or the underground (tunnels, basements, etc.).
Methods and material for containment and cleaning up:	<p>Recommendations for preventing the spread of the spill:</p> <p>On the ground: If necessary, surround the product with dry dike earth, sand or other non-combustible material. Significant spills may be carefully covered with foam (if available) to reduce the risk of fire. Do not use direct stream. Use with adequate ventilation inside buildings or in confined spaces.</p> <p>On the surface of water: For small spills into closed waters (i.e. port waters), protect the product with floating barriers or other equipment. Collect the spilled product using special floating absorbents. As far as possible, large spills in open waters should be controlled using floating barriers or other mechanical means. If this is not possible, it is necessary to control the spread of the spill and collect the product by skimming or other suitable mechanical means. The concentration of H₂S in the upper part of the tank can rise dangerously, especially in the case of prolonged storage.</p> <p>Recommendations for the elimination of leakage:</p> <p>On the ground: Absorb the spilled product with suitable, non-flammable materials. Collect the unbound product with available means. Transfer the collected product and other contaminated materials to appropriate tanks or containers for recovery or disposal in a safe manner. In the case of soil contamination, the contaminated layer should be removed and undergo treatment, in accordance with local regulations.</p> <p>On the surface of water: Collect the recovered product and other materials to the respective tanks or containers for recovery or disposal in a safe manner.</p>

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7. Handling and Storage

Precautions for safe handling:	While working with the product, follow the general rules and regulations of health and safety and fire protection. Keep it away from heat / sparks / open flames / hot surfaces . Use and store only outdoors or in a well-ventilated place. Avoid contact with the product Avoid release to the environment.
Advice on general occupational hygiene:	Ensure the implementation of appropriate disciplinary action. Do not allow the accumulation of contaminated materials in the workplace or to keep them in pockets. Keep away from food and beverages. During use of the product one must not eat, drink or smoke. After working with the substance thoroughly wash your hands. When you have finished, remove contaminated clothing.
Conditions for safe storage, including any incompatibilities:	Protect against electrostatic charges. Avoid sudden pouring (with splash) of large quantities of hot product in liquid form. Avoid contact with the skin. Avoid inhalation of fumes / fog. Do not swallow. Avoid the risk of slipping. If necessary, use appropriate personal protective equipment. More information on protection measures, see the section entitled „Exposure controls / personal protection“ Plan of the storage site, the design of the tank and equipment and operating procedures must comply with the relevant European, national and local provisions. Installations for the storage of substances should be equipped with the right embankment to protect the land and water from contamination in the case of leaks or spills. Cleaning, inspection and maintenance of interior storage tanks may only be made by suitably equipped and qualified people in accordance with national, local or company provisions. Keep away from oxidising agents. Recommended materials for the manufacture of tanks or layout: mild steel, including stainless steel. Unsuitable materials that are unlikely to cause exposure to dangerously high concentrations of SO ₂ or H ₂ S. Compliance should be agreed with the manufacturer. If the product is provided in a container: Keep it only in the original packaging or in a container suitable for this type of product. Keep containers tightly closed and properly labelled. Empty containers may contain flammable product residues. Empty containers must not be welded, drilled, cut or burn, unless they have been properly cleaned.

8. Exposure Controls/Personal Protection

Control Parameters

Exposure limit values NDS:

Product	NDS [mg/m ³]	NDSch [mg/m ³]	NDSP [mg/m ³]	Notes
Highly refined mineral oils with the exception of cutting fluids - inhalable fraction	5	-	-	-

Information on currently recommended monitoring procedures:

Follow the regulations on monitoring air quality and the following Polish standards:

PN-Z-040087:2002 „Principles of air sampling in the work environment and the interpretation of results“

DNEL and PNEC values:

No data

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Exposure control:	<p>Appropriate engineering controls:</p> <p>Use general ventilation of rooms and local exhaust ventilation removing vapour from emission places. General ventilation exhaust should be in the upper part of the room and at the floor, and local ventilation at the working level or below. Local ventilation is essential for the formation of mists and vapours.</p> <p>Individual protection measures, such as personal protective equipment:</p> <p>a) eye and face protection: special protection is not required, although it is good practice to use goggles in the case of splashing hazard - full protection of the head, face and neck.</p> <p>b) skin protection: In order to minimize the potential risk, the use of protective clothing and oil resistant gloves (e.g. nitrile) and footwear adapted to contact with hot objects are recommended.</p> <p>c) respiratory protection: No special protection is required, however, do not inhale vapours. If there is a risk of exposure to the risk of concentrated vapours or mist generation, use a protective mask with a filter.</p> <p>d) thermal hazards: Gloves should be heat-resistant and thermally insulated, if they are possible or expected to contact the product being hot.</p> <p>Environmental exposure controls:</p> <p>No data</p>
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9. Physical and Chemical Properties

Appearance:	transparent	
	Liquid at room temperature	
Odour:	Oil type	
Important health, safety and environmental information:	Viscosity grade:	32
	pH:	no data
	Initial Boiling Point and Boiling Range:	no data
	Pour point:	no data
	Flash point:	min. 210 °C
	Upper / lower Flammability or Explosion limits:	no data
	Auto-ignition temperature:	no data
	Vapour pressure:	no data
	Density:	no data
	Solubility:	löst sich in mehreren organischen Lösungsmitteln auf
	n-octanol/water partition coefficient	no data
	Kinematic viscosity:	28,8 – 74,8 mm ² /s at 40°C

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10. Stability/Reactivity

Reactivity:	In conditions of use does not show an increased reactivity.
Chemical stability:	In normal conditions the product is stable.
Possibility of hazardous reactions:	In conditions of use does not cause dangerous reactions.
Conditions to avoid:	Avoid ignition sources and heat when in explosive atmosphere.
Incompatible materials:	Strong oxidisers.
Hazardous decomposition products:	At high temperatures, thermal decomposition may product. Characteristics of the resulting product will depend on the decomposition conditions. Gases and vapours can be emitted: oxides of carbon, sulphur, nitrogen, hydrogen sulphide and hydrocarbons.

11. Toxicological Information

Information on ecological effects:	<p>Acute toxicity: Based on available data, the classification criteria are not met.</p> <p>Corrosion / irritation: Based on available data, the classification criteria are not met.</p> <p>Serious damage to eyes / eye irritation: Based on available data, the classification criteria are not met.</p> <p>Sensitization effect to respiratory or skin: Based on available data, the classification criteria are not met.</p> <p>Germ cell mutagenicity: Based on available data, the classification criteria are not met.</p> <p>Carcinogenesis: Based on available data, the classification criteria are not met.</p> <p>Reproductive toxicity: Based on available data, the classification criteria are not met.</p> <p>Toxic effects on target organs - single and repeated exposure: Based on available data, the classification criteria are not met.</p> <p>Aspiration hazard: Based on available data, the classification criteria are not met.</p>
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12. Ecological information

Toxicity:	Due to the content of hazardous components the product is classified as toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. There is no data on the ecotoxicity of the mixture.
Persistence and degradability:	There is no data on the ecotoxicity of the mixture.
Bioaccumulative potential:	No specific data. Bioconcentration factor (BCF) is not determined. Studies have shown that the BCF for petroleum products is negligible due to the low solubility in water.
Mobility in soil	The product accumulates on the surface of the water and if it is in large amounts, oxygen transfer into the water is decreased.
Result of PBT and vPvB assesment:	No data
Other adverse effects:	The product does not contain substances hazardous to the ozone layer.

13. Disposal Considerations

Note: Empty containers may contain flammable product residues. Empty containers may contain flammable product residues.

Waste treatment methods:	<p>Do not empty into drains, prevent pollution of surface and groundwater and soil. Use waste containers resistant to hydrocarbons, sealed and labelled.</p> <p>The product that is not suitable for use or used, it should be directed to the nearest collection point of waste.</p> <p>External recovery and recycling of waste should comply with applicable local and / or national regulations.</p> <p>Disposable containers are disposed of in accordance with the current regulations concerning the management of packaging waste. In contrast, reusable packaging can be reused after cleaning.</p> <p>Dispose of waste in accordance with the legal provisions.</p>
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14. Transport Information

Transport type:	Land transport (ADR/RID):
UN-number:	not applicable
Proper shipping name:	not applicable
Class (es) of transport hazard:	not applicable
Packing group:	not applicable
Environmental hazards:	not applicable
Special precautions for users:	not applicable
Transport in bulk according to Appendix II of MARPOL 73/78 and the IBC Code: not applicable	

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15. Regulatory Information

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Safety, health and environmental regulations/legislation specific for the substance or mixture:	<p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency (Journal of Laws EU L 396 of 30 December 2006 and amendments, Journal of Laws EU L 136 of 29 May 2007 as amended).</p> <p>Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)</p> <p>Act of 25 February 2011 on chemical substances and mixtures (Journal of Laws No. Laws 06.137.984, as amended)</p> <p>Regulation of the European Parliament and the Council Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Journal of Laws EU L 353 of 31 December 2008, as amended).</p> <p>Directive of the European Parliament and of the Council 2008/98/EC on waste and repealing certain Directives (Journal of Laws EU L 312 of 22 November 2008, as amended).</p> <p>Act of 14 December 2012 on waste (Journal of Laws of 2013, item 21, as amended)</p> <p>Regulation of the Minister of Economy and Labour dated 4 August 2004 on the detailed method of dealing with waste oils (Journal of Laws 04.192.1968, as amended)</p> <p>Regulation of the Minister of Labour and Social Policy of 6 June 2014 on the maximum permissible concentrations and intensities of harmful factors in the work environment (Journal of Laws of 2014.817 as amended)</p> <p>The Regulation of the Minister of the Environment of 18 November 2014 on the conditions to be met when discharging sewage into water or soil and on substances particularly harmful to the aquatic environment (Journal of Laws of 2014.1800, as amended).</p> <p>Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer (Journal of Laws WE series L 286 of 31 October 2008, as amended).</p> <p>Regulation of the Minister of Construction of 14 July 2006 on how the responsibilities of suppliers of industrial waste and the introduction of waste water into the sewage system are implemented (Journal of Laws 06136964)</p> <p>European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws 09.27.162, as amended)</p> <p>The Act of 20 June 1997 - Road Traffic Law (Journal of Laws 05.108.908, as amended)</p> <p>Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods (Journal of Laws UE.L.2008.260.13 as amended)</p> <p>The Act of 19 August 2011 on transport of dangerous goods (Journal of Laws 2011.227.1367, as amended)</p>
Chemical safety assessment:	No chemical safety assessment has been carried out for this substance/mixture by the supplier.

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16. Other Information

Gebr. Becker is not the manufacturer. The information in this publication is based on the specifications of our suppliers, and its reliability has not been proved by us. Therefore we are not responsible for any liability for any loss or damage caused by use of any information in this publication .

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.