

## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Reviewed on 01/19/2021

### 1 Identification

#### Product identifier

**Trade name:** *Bizerba Grease LM 21***Application of the substance / the mixture** *Additive*

#### Details of the supplier of the safety data sheet

**Manufacturer/Supplier:***Bizerba SE & Co. KG**Wilhelm-Kraut-Straße 65**72336 Balingen**Germany**Tel.: +49 (0) 7433 12-0**Fax: +49 (0) 7433 12-1350**vertrieb@bizerba.com***Information department:** *Customer Service Department***Emergency telephone number:***Bizerba Helpline +49 7433/122 911 during normal opening times (Mon-Fri 9 a.m.-4 p.m.)*

### 2 Hazard(s) identification

**Classification of the substance or mixture***The product is not classified, according to the Globally Harmonized System (GHS).***Label elements****GHS label elements** *Void***Hazard pictograms** *Void***Signal word** *Void***Hazard statements** *Void***Precautionary statements***Dispose of contents/container in accordance with local/regional/national/international regulations.***Classification system:****NFPA ratings (scale 0 - 4)***Health = 0**Fire = 1**Reactivity = 0***HMIS-ratings (scale 0 - 4)**

HEALTH	1
FIRE	1
REACTIVITY	0

*Health = 1**Fire = 1**Reactivity = 0***Other hazards****Results of PBT and vPvB assessment****PBT:** *Not applicable.***vPvB:** *Not applicable.*

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Reviewed on 01/19/2021

Trade name: **Bizerba Grease LM 21**

(Contd. of page 1)

## 3 Composition/information on ingredients

### Chemical characterisation: Preparation

#### Description:

Lubricating Grease based on Aluminium thickeners and medical white oils with additives.  
Not classified as a dangerous preparation according to Directive 1272/2008/EC (GHS).

#### Components:

CAS: 8042-47-5	White mineral oil, petroleum	>50%
----------------	------------------------------	------

## 4 First-aid measures

### Description of first aid measures

#### General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Personal protection for the First Aider.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Clean with water and soap. Generally the product is not irritant.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Do not induce vomiting.

If you feel unwell seek medical advice immediately (show the label where possible).

#### Information for doctor:

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## 5 Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

#### Special hazards arising from the substance or mixture

Formation of toxic/irritant gases is possible during heating or in case of fire.

Products of decomposition see chapter 10.

#### Advice for firefighters

#### Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Reviewed on 01/19/2021

**Trade name: Bizerba Grease LM 21**

(Contd. of page 2)

Keep away from open flames, hot surfaces and sources of ignition.  
Close leakage without taking personal risks.

**Environmental precautions:**

Do not allow to enter sewers/surface or ground water.  
In case of seepage into the ground inform responsible authorities.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

**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 disposal information.

**Protective Action Criteria for Chemicals****PAC-1:**

None of the ingredients is listed.

**PAC-2:**

None of the ingredients is listed.

**PAC-3:**

None of the ingredients is listed.

## 7 Handling and storage

**Precautions for safe handling**

Keep receptacles tightly sealed.  
Prevent longer or repeated contact with skin.  
Prevent contact with eyes.  
Particular danger of slipping on leaked/spilled product.  
Do not eat, drink or smoke while working.

**Information about protection against explosions and fires:**

Keep away ignition sources - Do not smoke.  
Do not spray on a naked flame or any incandescent material.

**Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.  
Prevent any seepage into the ground.

**Information about storage in one common storage facility:**

Store away from oxidizing agents.  
Store away from food, beverage and feedingstuff.

**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

**Storage class:** 10 - flammable liquid, flashpoint >60°C

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:** TWA: 5 mg/m<sup>3</sup> (oil mist)

**Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Reviewed on 01/19/2021

Trade name: **Bizerba Grease LM 21**

(Contd. of page 3)

**Exposure controls****General protective and hygienic measures:**

Do not eat or drink while working.  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes.  
 Avoid close or long term contact with the skin.

**Breathing equipment:**

Not necessary if room is well-ventilated.  
 Use suitable respiratory protective device in case of insufficient ventilation.  
 Filter A/P2

**Protection of hands:**

If the risk assessment necessitates, wear protective gloves. The glove material has to be impermeable/resistant against the product and be suitable for the tasks to be performed.

**Material of gloves**

Use solvent/hydrocarbon resistant gloves. Suitable are gloves from: nitrile rubber (thickness >0,38 mm, breakthrough time > 480 min), fluorocarbon rubber (thickness >0,38 mm, breakthrough time > 480 min). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Eye protection is not required when used properly. Otherwise safety glasses with side protection. Perform risk assessment.

**Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

<b>Form:</b>	Pasty
<b>Color:</b>	Yellow tint
<b>Odor:</b>	Nearly odorless
<b>Odor threshold:</b>	Not determined.

**Change in condition**

<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	Not determined.

<b>Flash point:</b>	<150 °C (<302 °F)
---------------------	-------------------

<b>Flammability (solid, gaseous):</b>	Not applicable.
---------------------------------------	-----------------

<b>Ignition temperature:</b>	Not determined.
------------------------------	-----------------

<b>Decomposition temperature:</b>	Not determined.
-----------------------------------	-----------------

<b>Auto igniting:</b>	Product is not selfigniting.
-----------------------	------------------------------

<b>Danger of explosion:</b>	Product does not present an explosion hazard.
-----------------------------	---

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Reviewed on 01/19/2021

Trade name: Bizerba Grease LM 21

(Contd. of page 4)

**Explosion limits:****Upper:****Oxidizing properties** Non oxidising.**Density at 20 °C (68 °F):** <1 g/cm<sup>3</sup> (<8.35 lbs/gal)**Relative 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.**Other information** No further relevant information available.

## 10 Stability and reactivity

**Reactivity** Stable under recommended storage conditions.**Chemical stability** Stable under normal conditions.**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid**

Heat, flames and sparks.

Keep away from strong oxidants as well as reducing agents.

**Incompatible materials:** strong oxidants**Hazardous decomposition products:**

In case of fire:

CO<sub>2</sub>, CO

Metal oxides

Under certain conditions of fire, other toxic/irritant substances may form.

## 11 Toxicological information

**Information on toxicological effects****Acute toxicity:****LD/LC50 values that are relevant for classification:**

Oral	LD50	4,744 mg/kg (calculation)
------	------	---------------------------

**Primary irritant effect:****on the skin:** No irritant effect.**on the eye:** Irritating effect possible.**Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

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.

**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Reviewed on 01/19/2021

Trade name: **Bizerba Grease LM 21**

(Contd. of page 5)

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** Not easily biodegradable**Behavior in environmental systems:****Bioaccumulative potential** Product is not bioaccumulative.**Mobility in soil**

The product is adsorbed on soil.

Not soluble in water.

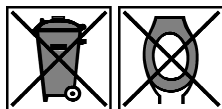
**Ecotoxicological effects:****General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** At intended use no interferences with environment are known or expected.

## 13 Disposal considerations

**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

**UN-Number****DOT, IMDG, IATA** not regulated**UN proper shipping name****DOT, IMDG, IATA** not regulated

(Contd. on page 7)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Reviewed on 01/19/2021

Trade name: **Bizerba Grease LM 21**

(Contd. of page 6)

**Transport hazard class(es)****DOT, ADN, IMDG, IATA**  
Class

not regulated

**Packing group****DOT, IMDG, IATA**

not regulated

**Environmental hazards:**

Not applicable.

**Special precautions for user**

Not applicable.

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

Not applicable.

**Transport/Additional information:****IMDG****Limited quantities (LQ)**

not any

**UN "Model Regulation":**

not regulated

## 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

**Sara****Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

**Hazardous Air Pollutants**

None of the ingredients is listed.

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Carcinogenic categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Reviewed on 01/19/2021

**Trade name: Bizerba Grease LM 21**

(Contd. of page 7)

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Training hints

Upon request trainings for to ensure safety of human health and of environment can be given. Contact see below.

Further information on the subject of occupational safety can be found at [www.baua.de](http://www.baua.de) and [www.arbeitschutz.de](http://www.arbeitschutz.de)

### Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Contact:** Email: [Bizerba.Kundendienst@bizerba.com](mailto:Bizerba.Kundendienst@bizerba.com)

**Date of preparation / last revision** 05/17/2021 / 2.1

### Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport 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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

### Sources

Data of raw material suppliers.

GESTIS-Stoffdatenbank, Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung, <https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>.