

Safety Data Sheet acc. to OSHA HCS

Printing date 01/13/2021

Reviewed on 01/13/2021

1 Identification

Product identifier

Trade name: Bizerba Maschinenöl (Aerosol 400ml)

Application of the substance / the mixture Lubricant

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



GHS02 Flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02

Signal word Danger

Hazard statements

Extremely flammable aerosol.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 0

Fire = 4

Reactivity = 3

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HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	4	Fire = 4
REACTIVITY	3	Reactivity = 3

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterisation: Preparation

Description: Mixture of subsequent listed substances and harmless additives.

Components:

CAS: 25189-70-2	1-Decene, homopolymer	40-<80%
CAS: 74-98-6	propane	10-25%
CAS: 106-97-8	butane, pure	10-25%
CAS: 128-37-0	Butylated hydroxytoluene	≥0.025-<2.5%

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:

Flush contaminated skin with plenty of water and soap. Remove contaminated clothing. Get medical attention if symptoms occur.

After eye contact:

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

After swallowing: Do not induce vomiting; immediately call for medical help.

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:

CO₂, 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

The formation of ignitable and combustible vapor / air mixtures is possible.

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

Products of decomposition see chapter 10.

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Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

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.

Keep away from open flames, hot surfaces and sources of ignition.

Avoid contact with skin and eyes.

Do not inhale vapours and aerosols.

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:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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:**

CAS: 68037-01-4	1-Decene, homopolmer, hydrogenated	30 mg/m ³
CAS: 74-98-6	propane	5500* ppm
CAS: 106-97-8	butane, pure	5500* ppm

PAC-2:

CAS: 68037-01-4	1-Decene, homopolmer, hydrogenated	330 mg/m ³
CAS: 74-98-6	propane	17000** ppm
CAS: 106-97-8	butane, pure	17000** ppm

PAC-3:

CAS: 68037-01-4	1-Decene, homopolmer, hydrogenated	2,000 mg/m ³
CAS: 74-98-6	propane	33000*** ppm
CAS: 106-97-8	butane, pure	53000*** ppm

7 Handling and storage

Precautions for safe handling

Prevent contact with eyes.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Particular danger of slipping on leaked/spilled product.

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Wash hands before brakes and at end of work

Do not eat, drink or smoke while working.

Extractor required on object.

Information about protection against explosions and fires:

Keep away ignition sources - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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:

Observe official regulations on storing packagings with pressurized containers.

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:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Storage class: 2 B - pressurized gas (aerosol)

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:

CAS: 74-98-6 propane

PEL Long-term value: 1800 mg/m³, 1000 ppm

REL Long-term value: 1800 mg/m³, 1000 ppm

TLV refer to Appendix F in TLVs&BEIs book; D, EX

CAS: 106-97-8 butane, pure

REL Long-term value: 1900 mg/m³, 800 ppm

TLV Short-term value: 2370 mg/m³, 1000 ppm
(EX)

CAS: 25189-70-2 1-Decene, homopolymer

EL Long-term value: 5 mg/m³
vapour and inhalable aerosol

EV Long-term value: 5 mg/m³
inhalable, vapour and aerosol

CAS: 128-37-0 Butylated hydroxytoluene

REL Long-term value: 10 mg/m³

TLV Long-term value: 2* mg/m³
*as inhalable fraction and vapor

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

Exposure controls

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Do not eat or drink while working.

Immediately remove all soiled and contaminated clothing.

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Trade name: **Bizerba Maschinenöl (Aerosol 400ml)**

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Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

Breathing equipment:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device only when aerosol or mist is formed.

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:



Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Aerosol
Color:	Colorless
Odor:	Nearly odorless
Odor threshold:	Not determined.

Change in condition

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	<-40 °C

Flash point: -97 °C (-142.6 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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Explosion limits:**Lower:** 1.5 Vol %**Upper:** 10.9 Vol %**Oxidizing properties** Non oxidising.**Density at 20 °C (68 °F):** 0.66 g/cm³ (5.51 lbs/gal)**Relative density** Not determined.**Evaporation rate** Not applicable.**Solubility in / Miscibility with****Water:** Not miscible or difficult to mix.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:****Kinematic at 40 °C (104 °F):** 22 mm²/s (Oil)**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.

Vapour-air mixtures are explosive when heated to a high temperature.

Possibility of hazardous reactions No dangerous reactions known.**Conditions to avoid**

Heat, flames and sparks.

Protect from direct sunlight.

Keep away from strong oxidants as well as reducing agents.

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

In case of fire:

CO₂, CO, NO_x, SO₂

Phosphorus 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:****CAS: 74-98-6 propane**

Inhalative LC50 / 4 h 20 mg/l (rat)

CAS: 106-97-8 butane, pure

Inhalative LC50 / 4 h 658 mg/l (rat)

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

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Trade name: Bizerba Maschinenöl (Aerosol 400ml)

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Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

CAS: 128-37-0 Butylated hydroxytoluene

3

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:

CAS: 74-98-6 propane

EC50 / 48 h 69.43 mg/l (Daphnia magna)

LC50 / 96 h 49.9 mg/l (fish)

CAS: 106-97-8 butane, pure

EC50 / 48 h 69.43 mg/l (Daphnia magna)

LC50 / 96 h 49.9 mg/l (fish)

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

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.

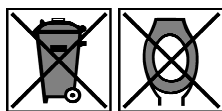
vPvB: Not applicable.

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.

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Trade name: *Bizerba Maschinenöl (Aerosol 400ml)*Recommended cleansing agent: *Water, if necessary with cleansing agents.*

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14 Transport information

UN-Number

DOT, IMDG, IATA

UN1950

UN proper shipping name

DOT

Aerosols, flammable

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

Transport hazard class(es)

DOT



Class

2.1

Label

2.1

IMDG, IATA

Class

2.1

Label

2.1

Packing group

DOT, IMDG, IATA

not regulated

Environmental hazards:

Not applicable.

Special precautions for user

Warning: Gases

Hazard identification number (Kemler code): -**EMS Number:**

F-D,S-U

Stowage Code

SW1 Protected from sources of heat.

SW2 Clear of living quarters.

Segregation CodeSG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1
except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

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

Not applicable.

Transport/Additional information:

DOT

Quantity limitations

On passenger aircraft/rail: 75 kg

On cargo aircraft only: 150 kg

IMDG

Limited quantities (LQ)

1L

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Excerpted quantities (EQ)

Code: E0

Not permitted as Excerpted Quantity

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

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 established by ACGIH)

CAS: 128-37-0 Butylated hydroxytoluene

A4

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

None of the ingredients is listed.

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 and www.arbeitsschutz.de

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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**Date of preparation / last revision** 01/13/2021 / 2.0**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

Flam. Aerosol 1: Aerosols – Category 1

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>.