

1 Identification

Product identifier

Trade name: Blasoprotect MV 37 Spray (Anti-Corrosion fluid LZ Spray)

Article number: 00137-01SP

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

No further relevant information available.

Application of the substance / the preparation:

For industrial use only

Anticorrosion agent or additive

Lubricant

Details of the supplier of the safety data sheet

Manufacturer / Supplier:

BLASER SWISSLUBE AG

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Information department:

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Emergency telephone number:

Within USA and Canada : 1-800-424-9300

Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

2 Hazard(s) identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May cause drowsiness or dizziness.

Label elements

GHS label elements The product is classified and labeled according to 29 CFR 1910.1200 (OSHA Hazcom 2012).

Hazard pictograms



GHS02 GHS04 GHS07

Signal word Danger

Hazard-determining components of labeling:

Hydrotreated heavy naphtha (petroleum)

Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

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USA

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H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization: Mixtures**Description:** Active substance with propellant**Declarable components:****CAS no.**

64742-48-9	Hydrotreated heavy naphtha (petroleum)	>50-<80%
74-98-6	propane	>5.0-<15%
106-97-8	butane	>5.0-<15%

Additional information:

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

4 First-aid measures

Description of first aid measures**After inhalation:** Not applicable, as the concentrate is not volatile.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:**

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

Information for doctor:**Most important symptoms and effects, both acute and delayed** Nausea / vomiting**Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs.

Medical supervision for at least 48 hours.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.**Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

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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.

7 Handling and storage

Handling:**Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

The product has been classified and marked in accordance with directives on hazardous materials.

Observe the general safety regulations when handling chemicals.

Information about protection against explosions and fires:

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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.

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

Store in a cool location.

Store only in the original receptacle.

Observe official regulations on storing packagings with pressurized containers.

Information about storage in one common storage facility: Store away from oxidizing agents.**Further information about storage conditions:**

Protect from heat and direct sunlight.

Optimal storage temperature between 5°F and 104°F

Duration of storage: In original container, at least 3 years.

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 at the workplace:****74-98-6 propane**

EL (Canada)	Long-term value: 1000 ppm
EV (Canada)	Long-term value: 1,000 ppm
PEL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
TLV (USA)	refer to Appendix F in TLVs&BEIs book; NIC-EX

106-97-8 butane

EL (Canada)	Short-term value: 750 ppm Long-term value: 600 ppm
EV (Canada)	Long-term value: 800 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 800 ppm
TLV (USA)	Short-term value: (2370) mg/m ³ , (1000) ppm NIC-EX

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

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

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory Protection: Not required.**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves (recommended): Suitable protective gloves: Nitrile gloves, minimum thickness of 0.3 mm.**Breakthrough time of glove material:**

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

Eye protection (recommended):

Eye protector with side protection (framed eyeglasses) ANSI Z87.1 – 2010

Use of tight fitting goggles

Body protection (recommended): Protective work clothing

9 Physical and chemical properties

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

Form:	Aerosol
Color:	Yellowish
Odor:	Solvent-like
Odor threshold:	Not determined.

pH-value:	Not applicable.
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Change in condition:

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	Not applicable, as aerosol.

Flash point:	Not applicable, as aerosol.
Evaporation rate	Not determined.

Flammability (solid, gaseous):	Not applicable.
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Explosion limits (@1013 mbar):

Lower:	0.6 Vol %
Upper:	10.9 Vol %

Oxidizing properties Not applicable.**Relative density** Active substance: 0.80 @ 20°C (DIN 51757 / ASTM D1217)
Not applicable, as aerosol.**Vapor density** Not applicable.**Evaporation rate** Not applicable.**Solubility in / Miscibility with**

Water:	Insoluble.
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Partition coefficient (n-octanol/water): Not determined.**Auto-ignition temperature:** Product is not selfigniting.**Decomposition temperature:** Not determined.**Viscosity**

Kinematic:	Active substance: 1.0 mm²/s @ 40°C (ISO 3104 / ASTM D445)
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VOC content:	930 (ASTM E1868-10); Concentrate in the packaging as sold.
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Other information: none

10 Stability and reactivity

Reactivity None known if used as directed.

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions Reacts with strong oxidizing agents.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products
(in case of fire or oxidation):

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

Information on toxicological effects
Acute toxicity:
LD/LC50 values that are relevant for classification:
ATE (Acute Toxicity Estimate)

Inhalative	LD50	4387 mg/L (rat)
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64742-48-9 Hydrotreated heavy naphtha (petroleum)

Oral	LD50	>5000 mg/kg (rat)
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Dermal	LD50	>5000 mg/kg (rab)
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106-97-8 butane

Inhalative	LD50	658 mg/L (rat)
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Primary irritant effect:
on the skin: Contact may degrease the skin and cause skin inflammation (dermatitis).

on the eye: No irritating effect.

Sensitization: Sensitization possible through inhalation.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

IARC (International Agency for Research on Cancer)

None of the ingredients is listed in groups 1, 2A, or 2B.

NTP (National Toxicology Program)

None of the ingredients are listed.

12 Ecological information

Toxicity
Aquatic toxicity:
64742-48-9 Hydrotreated heavy naphtha (petroleum)

EC50/96h	>1000 mg/L (Oncorhynchus mykiss) (OECD 203)
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EC50/48h	1000 mg/L (Daphnia magna) (OECD 202)
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EC50/72h	>1000 mg/L (Algae) (OECD 201)
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Persistence and degradability The product is highly volatile, therefore the biodegradability can not be determined.

Behavior in environmental systems:
Bioaccumulative potential No further relevant information available.

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Mobility in soil No further relevant information available.

Additional ecological information:
General notes: Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation:

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

Used containers
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number
DOT, IMDG, IATA

UN1950

DOT

Aerosols, flammable

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

DOT

Hazard Classification:

2.1

Label

2.1

IMDG, IATA

Hazard Classification:

2.1

Label

2.1

Environmental hazards
Marine pollutant (according to IMDG): No

Special precautions for user

Not applicable.

EMS Number:

F-D,S-U

Stowage Code

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE

AEROSOLS: Category C, Clear of living quarters.

Segregation Code

SG69 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.

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Transport/Additional information:**DOT****Quantity limitations**

On passenger aircraft/rail: 75 kg

On cargo aircraft only: 150 kg

Remarks:**Excepted quantities (EQ)**

Contains: Hydrocarbons

Code: E0

Not permitted as Excepted Quantity

IMDG**Limited quantities (LQ)**

1L

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

IATA

IATA Dangerous Goods Regulation (DGR): latest edition

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:**SARA (Superfund Amendments and Reauthorization)****Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

This product does not contain a chemical that are listed in Section 313.

California Proposition 65

This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

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

None of the ingredients are listed.

NIOSH-Carcinogen list

None of the ingredients are listed.

California SCAQMD Rule 1144: Not applicable.**GHS label elements** GHS label elements are issued under section 2.

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.

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H.R.2420 (RoHS):

This product fulfill the H.R.2420 requirements in that the EDEE Act regulated materials are absent or their concentrations are significantly below regulatory thresholds.

BSE/TSE:

This product adheres to the standards of TSE/BSE-free products, according to European Community directives 93/42/EEC and 2003/32/EC.

Materials and/or synthetically modified materials which are of animal origin from bovine, ovine, goats, cats, dogs, deer, elk and/or mink, are NOT included in this product.

This product is entirely free from latex containing materials.

NFPA ratings (scale 0-4)

Health = 1

Fire = 4

Reactivity = 3

Department issuing SDS: Product Stewardship**Editor's notice:**

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Date of preparation / last revision 01/15/2018 / 2**Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic chemicals

vPvB: very Persistent and very Bioaccumulative chemicals

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

ATE: Acute Toxicity Estimate

Flam. Aerosol 1: Aerosols – Category 1

Press. Gas: Gases under pressure – Compressed gas

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** Data compared to the previous version altered.**

The asterisk (*) on the left side indicate the respective changes from the previous version.