

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH)



Art. 50204, SILVER-LUB 1000, 400 ml

Version: 3

Revision date: 05.07.2023

Date of print: 05.07.2023

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SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Identification / trade name: Art. 50204, SILVER-LUB 1000, 400 ml

REACH registration number: not notifiable

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

Use of the substance / mixture:

Special lubricant

1.3 Details of the supplier of the safety data sheet

Supplier / Manufacturer: HWR-CHEMIE GmbH
Moosfeldstrasse 7
D-82275 Emmering

Telephone: 0049-8141-51030

Telefax: 0049-8141-510355

E-mail: info@hwr-chemie.de

E-mail (competent person): infoSDB@hwr-chemie.de

Information contact: Laboratory

1.4 Emergency phone

Emergency phone Germany: 0049-8141-51030 (only during office hours)

Emergency phone Austria: 0043 1 406 43 43 (poison information centre)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Aerosol 1, H222-H229; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H336;
Aquatic Chronic 3, H412

2.2 Label elements

Regulation (EC) No 1272/2008

Hazard pictograms



Signal word: Danger.

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Hazard components for labeling

Hydrocarbons, C6, isoalkane, < 5% n-hexan; Calciumhydroxid;
Hydrocarbons, C9-C10, n-alkane, iso-alkane, cyclic, < 2% aromatics

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501 Dispose of contents/container at hazardous or special waste collection point.

2.3 Other hazards

The substances in this mixture do not meet the PBT/vPvB criteria of REACH, annex XIII.
The substances in this mixture do not have any endocrine disrupting properties.

SECTION 3. Composition / information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Chemical characterization

Mixture of mineral oils, aerosol propellants, aluminium pigments and slip additives.

Hazardous ingredients

30 - 50 % Butane, EG 203-448-7, CAS 106-97-8, Flam. Gas 1, H220; Press. Gas, H280
10 - 20 % Propane, EG 200-827-9, CAS 74-98-6, Flam. Gas 1, H220; Press. Gas, H280
10 - 20 % Hydrocarbons, C6, isoalkane, < 5% n-hexan, EG 931-254-9, Flam. Liq. 2, H225;
Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336
2,5 - 10 % Hydrocarbons, C9-C10, n-alkane, iso-alkane, cyclic, < 2% aromatics, EG 927-241-2,
Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412
2,5 - 10 % Calciumhydroxid, EG 215-137-3, CAS 1305-62-0, Eye Dam. 1, H318; Skin Irrit. 2, H315;
STOT SE 3, H335
1 - 10 % iso-Butane, EG 200-857-2, CAS 75-28-5, Flam. Gas 1, H220; Press. Gas, H280
1 - 10 % Aluminium powder (stabilized), EG 231-072-3, CAS 7429-90-5, Flam. Sol. 1, H228

Additional information

Full text of hazard classes and H-phrases: see section 16

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SECTION 4. First aid measures

4.1 Description of first aid measures

General informations:	In case of persistent symptoms seek medical advice. Remove contaminated clothing. In case of unconsciousness place patient into stable side position for transportation. Never give fluids or induce vomiting if patient is unconscious or is having convulsions.
In case of inhalation:	Provide affected person with fresh air and seek medical advice depending on the symptoms.
In case of skin contact:	Contaminated, soaked clothing should be immediately removed. Wash skin thoroughly with soap and water.
In case of eye contact:	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
In case of ingestion:	Rinse mouth immediately and then drink plenty of water. Do not induce vomiting. Seek medical advice at once. In case of spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid aspiration.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness, headache. Contact with eyes may cause reddening, running eyes and smarting pain. Ingestion may result in nausea and stomach pain. Skin contact may cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital functions), no known specific antidote.

SECTION 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet / alcohol resistant foam / CO₂ / dry extinguishing powder

Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
In case of fire may be liberated: carbon oxides.

5.3 Advice for fire-fighters

Cool closed containers exposed to fire with water spray jet.
Special protective equipment: Wear full protective suit with self-contained breathing apparatus.

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SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. Wear protection equipment.

6.2 Environmental precautions

Large quantities of spills should be contained by. Do not allow to enter undiluted into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with an absorbent material and dispose of according to local regulations.

6.4 Reference to other sections

Observe protective measures in sections 8 and disposal considerations in section 13.

SECTION 7. Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Do not expose to temperatures exceeding 50 °C. Do not spray into eyes.

Use only in well-ventilated areas or provide local extraction.

Avoid release into the environment.

General hygiene measures:

- Eating, drinking or smoking is prohibited in areas, where work is performed.
- Wash your hands after use.
- Take off contaminated clothing and protective equipment before entering eating areas.

Precautions against fire and explosion

Flammable vapour/air-mixtures may be formed. Keep away from sources of ignition - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool and well-ventilated place.

Store locked up. Storage compatibility and limitations according to TRGS 510 must be observed.

7.3 Specific end uses

Observe product information sheet.

eCl@ss (8.0): 23-06-90-05

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SECTION 8. Exposure controls / Personal protection

8.1 Control parameters

Workplace exposure limits according to TRGS 900

Substances: Propane

Occupational exposure limit: 1000 ppm, 1800 mg/m³

Top limiting and exceedance factor: 4 (II)

Notes: DFG

Substances: Butane

Occupational exposure limit: 1000 ppm, 2400 mg/m³

Top limiting and exceedance factor: 4 (II)

Notes: DFG

Substances: Isobutane

Occupational exposure limit: 1000 ppm, 2400 mg/m³

Top limiting and exceedance factor: 4 (II)

Notes: DFG

Substances: Calciumdihydroxid

Occupational exposure limit: 1 mg/m³ E

Top limiting and exceedance factor: 2 (I)

Notes: Y, EU, DFG

Substances: Hydrocarbons, C9-C15 aliphates

Occupational exposure limit: 600 mg/m³

Top limiting and exceedance factor: 2 (II)

Community workplace exposure limits

Substances: Calciumdihydroxid

EU limits (8h): 1 mg/m³

EU limits (short-term): 4 mg/m³

8.2 Exposure controls / Personal protection equipment

Appropriate engineering controls

See section 7. No additional measures necessary.

Personal protection equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: Tested gloves with breakthrough time \geq 8 hours made from NBR (0.4 mm)

Eye protection: Safety goggles

Protective clothing: usual work clothes

General health and safety measures

Respect good personal hygiene. Do not drink, eat or smoke while handling.

Environmental exposure controls

See section 6 and 7.

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SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Physical state:	aerosol
Colour:	silver-gray
Odour:	characteristic
pH value (undiluted):	not applicable
Melting point/Freezing point (°C):	not determined
Boiling temperature (°C):	not determined
Flashpoint (°C):	-60
Flammability (solid, gas):	not applicable
Lower explosion limit:	1 Vol.-%
Upper explosion limit:	10.9 Vol.-%
Vapour pressure (hPa):	3800
Relative vapor density:	not determined
Density (20 °C):	0.66
Solubility:	not mixable with water
Partition coefficient (KOW):	not determined
Ignition temperature:	not determined
Decomposition temperature:	not determined
Kinematic viscosity (mm ² /s):	not determined
Particle properties:	not applicable

9.2 Other information

Other safety characteristics

No other physical and chemical data has been recorded.

SECTION 10. Stability and Reactivity

10.1 Reactivity

Mixture of solvents, no particular reactivity expected.

10.2 Chemical stability

Stable under the specified storage conditions.

10.3 Possibility of hazardous reactions

There are expected no hazardous reactions for intended use.

10.4 Conditions to avoid

Avoid heat, direct sunlight, electrostatic discharges and sparks.
Note the information about handling and storage in section 7.

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10.5 Incompatible materials

Different plastics can be attacked.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

The mixture does not meet the criteria for classification.

Skin Corrosion / Irritation

Mixture is classified as irritating to the skin.

Serious Eye Damage / Irritation

Mixture causes serious eye damage.

Sensitisation

Mixture does not contain any sensitising substances.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mixture does not contain any substances which are classified as carcinogenic, mutagenic or toxic for reproduction.

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Mixture does not contain any substances with specific target organ toxicity (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

Other information

No further data available.

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SECTION 12. Ecological information

The available data refer to the substances in the mixture. The mixture as a whole has not been tested.

12.1 Toxicity

Hydrocarbons, C6, Isoalkane, < 5% n-Hexan

EC50 (48h) = 3.87 mg/l (Daphnia magna)

LC50 (48h) > 1 mg/l (Oryzias latipes)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances which are identified as PBT or vPvB.

12.6 Endocrine disrupting properties

This mixture does not contain any substances which are identified as endocrine disrupting.

12.7 Other adverse effects

No further relevant information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Recommendation

Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations.

Waste codes/waste designations according to EWC

15 01 10 (Packaging containing residues of or contaminated by hazardous substances)

Packaging

Contaminated package

Hazardous waste according to European list of wastes. Dispose of in accordance with local, official regulations. Waste code 15 01 10 (packaging containing residues of or contaminated by hazardous substances)

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SECTION 14. Transport information

14.1 UN number or ID number

1950

14.2 UN Proper shipping name:

ADR / RID:

Aerosols, flammable

IMDG-Code / ICAO-TI / IATA-DGR:

Aerosols, flammable

14.3 Transport hazard class(es)

ADR / RID / IMDG-Code / ICAO-TI / IATA-DGR:

2 (5F)

14.4 Packing group

not applicable

14.5 Environmental hazards

Not classified.

14.6 Special precautions for user

See section 6 and 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15. Regulatory information

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

National regulations

Maternity Protection Act (MuSchG): not applicable.

Major Accidents Ordinance (12. BImSchV): not applicable.

Observe employment restrictions for young people (§ 22 JArbSchG).

Water hazard class: WGK 2 (in accordance with German regulation AwSV)

VOC content according to 31. BImSchV: 79.0 %

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

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SECTION 16. Other information

Indication of changes

Revised sections: 2

Hazard statements referred to in Section 2 and 3 i.a.w. Regulation (EC) No 1272/2008

Flam. Gas 1, H220 = Flammable gases, category 1, Extremely flammable gas.

Aerosol 1, H222 = Aerosols, category 1, Extremely flammable aerosol.

Flam. Liq 2, H225 = Flammable liquids, category 2, Highly flammable liquid and vapour.

Flam. Liq 3, H226 = Flammable liquids, category 3, Flammable liquid and vapour.

Flam. Sol. 1, H228 = Flammable solids, category 1, Flammable solid.

Aerosol 3, H229 = Aerosols, category 3, Pressurized container: may burst if heated.

Press. Gas, H280 = Gases under pressure, Contains gas under pressure; may explode if heated.

Asp. Tox. 1, H304 = Aspiration hazard, category 1, May be fatal if swallowed and enters airways.

Skin Irrit. 2, H315 = Skin corrosion / irritation, category 2, Causes skin irritation.

Eye Dam. 1, H318 = Eye damage / irritation, category 1, Causes serious eye damage.

STOT SE 3, H335 = Specific target organ toxicity (single exposure), category 3, May cause respiratory irritation.

STOT SE 3, H336 = Specific target organ toxicity (single exposure), category 3, May cause drowsiness or dizziness.

Aquatic Chronic 2, H411 = Hazardous to the aquatic environment, chronic, category 2, Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3, H412 = Hazardous to the aquatic environment, chronic, category 3, Harmful to aquatic life with long lasting effects.

Key literature references and sources for data

REACH Regulation (EC) No. 1907/2006

CLP Regulation (EC) No. 1272/2008

All data were taken from the safety data sheets of our sub-suppliers, where available. Missing data were taken from the Substance Database GESTIS of the Institute for Occupational Safety and Health of the German statutory accident insurance or from the database of the European Chemicals Agency (ECHA).

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Legend

ABEK	Filter designation
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE mix	Acute Toxicity Estimates for mixtures
AVV	European waste list regulation
AwSV	Ordinance on systems for handling water-polluting substances
Butyl	Butyl rubber
CAS	(Registration number) Chemical Abstracts Service
CLP	Regulation on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenicity, mutagenicity, reproductive toxicity
CR	Chloroprene rubber
EC50	Median effective concentration
EG	(Registration number) European Union
ErC50	Median effective concentration
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act
FKM	Fluorocarbon rubber
GISCODE	Labelling system of the professional associations in the construction industry
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration of a substance leading to the death of 50% of the exposed organisms
LD50	Lethal dose of a substance that leads to death of 50% of the organisms exposed to it
MARPOL	International Convention for the Prevention of Pollution from Ships
NBR	Acrylonitrile butadiene rubber
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
NR	Natural rubber
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, bioaccumulating, toxic
PET	Polyethylene terephthalate
PTFE	Polytetrafluoroethylene
PVC	Polyvinyl chloride
REACH	Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Convention concerning International Carriage by Rail
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
US-EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
vPvB	Very persistent, very bioaccumulating
WGK	Water hazard class

Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.