Dear simalube Customer,

We hereby confirm that the automatic lubricators simalube and simalube multipoint with the designation SL09 are filled with Blasolube 414 lubricant. The Material Safety Data Sheet (MSDS) for this lubricant is provided on the following pages. Please visit www.simatec.com for further technical data regarding this lubricant and simatec automatic lubricators.

Werter simalube Kunde


Cher client simalube

Nous certifions que les graisseurs automatiques simalube et simalube multipoint appelés SL09 sont remplis avec le lubrifiant Blasolube 414. La fiche de données de sécurité de ce lubrifiant peut être trouvé dans les pages suivantes. Concernant les données techniques du lubrifiant tout comme les graisseurs automatiques simalube, vous allez trouver ces détails sous le lien suivant : www.simatec.com

Estimado cliente de simalube

Por la presente certificamos que los lubricadores automáticos simalube y simalube multipoint con la designación SL09, están rellenados con el lubricante Blasolube 414. La ficha de datos de seguridad de este lubricante Usted pueden encontrar en las siguientes páginas. Para especificaciones técnicas del lubricante y de los lubricadores automáticos simalube ver: www.simatec.com

Caro cliente simalube

Con la presente confermiamo che i lubrificatori automatici simalube e simalube multipoint con la designazione SL09 sono riempiti con lubrificante Blasolube 414. La scheda dati di sicurezza per questo lubrificante è riportato sulle seguenti pagine. I dati tecnici del lubrificante e dei lubrificatori automatici sono disponibili sul sito: www.simatec.com

01.11.2016 / simatec ag, Wangen a. Aare, Switzerland
### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Blasolube® 414  
  *(Grease based on lithium and calcium)*
- **Article number:** 00414-01
- **1.2 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
  
  Lubricant
  
  Lubricating grease

- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer / Supplier:**
    BLASER SWISSLUBE AG  
    Winterseistrasse 22  
    CH-3415 Hasle-Rüegsau  
    Switzerland  
    Tel.: +41 (0)34 460 01 01  
    Fax: +41 (0)34 460 01 00  
    E-mail: blaser@blaser.com

  - **Further information obtainable from:**
    Product Safety Department  
    E-mail: reach@blaser.com

- **1.4 Emergency telephone number:**
  - Toxicological information Switzerland:
    24-h-Emergency number: 145 (from abroad: +41 44 251 51 51)  
    Information: +41 44 251 66 66
  
  For advice on chemical emergencies, spillages, fires or exposures: +44 1235 239670 (24h/7d)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture:**
  - Classification according to Regulation (EC) No 1272/2008
    This product is considered not hazardous according to the CLP regulation.

- **2.2 Label elements**
  - Labelling according to Regulation (EC) No 1272/2008
    The product does not meet the criteria which leads to a labeling.
  
  - **Hazard pictograms** Void
  
  - **Signal word** Void
  
  - **Hazard statements** Void
  
  - **Additional information:**
    EUH210 Safety data sheet available on request.

- **2.3 Other hazards** None
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  
  - **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
  - **Description:**
    Mixture of substances listed below with nonhazardous additions.
    Lithium- and calcium soap grease, on the basis of natural- and synthetic oils, with additives.

(Contd. on page 2)
SECTION 4: First aid measures

4.1 Description of first aid measures
General information: No special measures required.
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: If symptoms persist consult doctor.

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

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
Protective equipment: No special measures required.
Additional information: Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Not required.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.
Observe the general safety regulations when handling chemicals.

Information about fire - and explosion protection: No special measures required.
Trade name: Blasolube® 414
(Grease based on lithium and calcium)

7.2 Conditions for safe storage, including any incompatibilities
- **Storage:**
  - Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  - Information about storage in one common storage facility:
    Do not store together with oxidising and acidic materials. 
    Store away from oxidising agents.
  - Further information about storage conditions:
    Protect from heat and direct sunlight.
    Optimal storage temperature between 0 °C and 40 °C.
    Duration of storage: In original container, at least 3 years.

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

**SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
- Ingredients with limit values at the workplace: TLV value (oil mist) CH: 5 mg/m³
- Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
  - 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
    The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.
    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.
    The break through, among others, depending on material density and the type of glove and therefore must be 
    determined in each individual case.
    Gloves must be inspected prior to use. Replace when worn!
    Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.
  - Penetration time of glove material
    The exact breaktrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection: Eye protector with side protection (framed eyeglasses) EN 166.
  - Body protection: Protective work clothing

**SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Pasty
      - Colour: Yellow-brown
      - Odour: Characteristic
      - Odour threshold: Not determined.
    - pH-value: Not applicable.
Trade name: Blasolube® 414  
(Grease based on lithium and calcium)

- Change in condition:  
  - Melting point/freezing point: Not applicable  
  - Initial boiling point and boiling range: Not determined  
  - Drip point: 170 °C (ISO 2176 / ASTM D566)  
  - Pour point: Not applicable

- Flash point: >200 °C (ISO 2592 / ASTM D92)  
  (Value for the processed mineral-, ester- or synthetic oil)

- Flammability (solid, gas): Not applicable

- Ignition temperature: >350 °C (DIN 51794 / ASTM E659)

- Decomposition temperature: >350 °C

- Auto-ignition temperature: Product is not selfigniting

- Explosive properties: Product does not present an explosion hazard.

- Explosion limits (@1013 mbar):  
  - Lower: Not determined  
  - Upper: Not determined

- Oxidising properties: Not applicable

- Density at 20 °C: 0,92 g/cm³ (DIN 51757 / ASTM D1217)

- Vapour density: Not applicable

- Evaporation rate: Not applicable

- Solubility in / Miscibility with water: Not determined

- Partition coefficient: n-octanol/water: Not determined

- Viscosity:  
  - Penetration: 265-295 mm/10 @ 25 °C. (ISO 2137 / ASTM D217)

- VOC (CH): 0,00 %

- 9.2 Other information: safety relevant data, which has to be considered as product specifications

SECTION 10: Stability and reactivity

- 10.1 Reactivity: None known if used as directed.

- 10.2 Chemical stability: Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.

- 10.4 Conditions to avoid: No further relevant information available.

- 10.5 Incompatible materials: No further relevant information available.

- 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:  
  > 2000 - < 5000 mg / kg (oral, rat)  
  > 5,100 mg/m³ 4h (inhalation, rat)  
  * pure substance

95-38-5 Imidazoline - derivative

Oral | LD50 1265 mg/kg (rat) (OECD 401)
Trade name: Blasolube® 414  
(Grease based on lithium and calcium)
SECTION 14: Transport information

- 14.1 UN-Number
  ADR, ADN, IMDG, IATA
  Void

- 14.2 UN proper shipping name
  ADR, ADN, IMDG, IATA
  Void

- 14.3 Transport hazard class(es)
  ADR, ADN, IMDG, IATA
  Class
  Void

- 14.4 Packing group
  ADR, IMDG, IATA
  Void

- 14.5 Environmental hazards:
  Marine pollutant:
  No

- 14.6 Special precautions for user
  Not applicable.

- 14.7 Transport in bulk according to Annex II of Marpol
  and the IBC Code
  Not applicable.

- Transport/Additional information:
  Not dangerous according to the above specifications.

- IATA

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  Directive 2012/18/EU
  Named dangerous substances - ANNEX I None of the ingredients is listed.
  National regulations:
  CPID-no. (CH): 211638-49

- Other regulations, limitations and prohibitive regulations
  Substances of very high concern (SVHC) according to REACH, Article 57
  This preparation does not contain any SVHC (“Substances of Very High Concern”)

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

SECTION 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.

- Regulations / approvals / listings:
  Information on REACH registration numbers in section 3:
  In case of lack of REACH registration numbers on mentioned hazardous substances at the end of 2010, then these numbers will be known and indicated only in section 3 within its tonnage band for registration, after the end of 2013, respectively by the end of 2018, or are exempt from the REACH regulation (e.g. polymers).

- RoHS:

(Contd. on page 7)
Trade name: Blasolube® 414  
(Grease based on lithium and calcium)

The following substances ARE NOT contained:
Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PDBE) and/or polybrominated biphenyls (PBB), Bis(2-ethylhexyl)phthalate (DEHP), Benzylbutylphthalate (BBP), Dibutylphthalate (DBP), Diisobutylphthalate (DIBP);
lead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr⁶⁺-compounds.

· TSE/BSE:
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.

· Department issuing SDS: Product Stewardship
· Contact: Dr. Mosimann + Mr. Frei

· 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.

· 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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
VOC: Volatile Organic Compounds (USA, EU)
ISO: International Organisation for Standardisation
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
ATE: Acute Toxicity Estimate
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * Data compared to the previous version altered.
The asterisk (*) on the left side indicate the respective changes from the previous version.