SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

1.1 Product identifier
   Product name: BOGE FoodLub H1SX

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

   Identified uses: Lubricant
   Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

   Manufacturer / Supplier
   BOGE Kompressoren GmbH&Co.KG
   Otto-BOGE-Straße 1-7
   33739 Bielefeld

   Telephone: +49 5206 601 100 (ZENTRALE)
   Fax: +49 5206 601-200

   Contact for request of safety data sheets

   E-mail: info@boge.com
   Telephone: +49 5206 601 100 (ZENTRALE)

   Informing department for safety data sheets

   E-mail: info@boge.com

   1.4 Emergency telephone number: + 44 1235 239670 (en)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

   The product has not been classified as hazardous and does not need to be labelled according to GB-CLP.

   Classification according to GB-CLP.

   Hazard summary
   Physical Hazards: No data available.
Product name: BOGE FoodLub H1SX

2.2 Label Elements
Not applicable

2.3 Other hazards:
By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
General information: Mixture of synthetic base oils with additives. The components are not hazardous or are below required disclosure limits.

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures
Inhalation: Supply fresh air; consult doctor in case of symptoms.
Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.
Skin Contact: Wash with soap and water.
Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed:
May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed
Get medical attention if symptoms occur. Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media:
CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added.

Unsuitable extinguishing media:
Water with a full water jet.

5.2 Special hazards arising from the substance or mixture:
During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters
### Special fire-fighting procedures:
Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

### Special protective equipment for fire-fighters:
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:
In case of spills, beware of slippery floors and surfaces.

#### 6.2 Environmental Precautions:
Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

#### 6.4 Reference to other sections:
See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

### SECTION 7: Handling and storage:

#### 7.1 Precautions for safe handling:
Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

#### 7.2 Conditions for safe storage, including any incompatibilities:
Do not heat up to temperatures close to the flash point.

#### 7.3 Specific end use(s):
No data available.

#### Storage Class:
10, Combustible liquids

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control Parameters

**Occupational Exposure Limits**
None of the components have assigned exposure limits.

#### 8.2 Exposure controls
Appropriate engineering controls:
Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information:
Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

Eye/face protection:
Safety glasses (EN 166) recommended during refilling. Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

Skin protection
Hand Protection:
Material: Nitrile butyl rubber (NBR).
Min. Breakthrough time: >= 480 min
Recommended thickness of the material: >= 0.38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other:
Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Respiratory Protection:
Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/aerosol.

Thermal hazards:
Not known.

Hygiene measures:
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls:
No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: liquid
Form: liquid
Color: Colorless
**Product name:** BOGE FoodLub H1SX

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>pH</td>
<td>substance/mixture is non-soluble (in water)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>&lt; -27 °C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>317 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>240 °C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability Limit - Upper (%)--</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Flammability Limit - Lower (%)--</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Density</td>
<td>0.83 g/cm³ (15 °C)</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble in water</td>
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<tr>
<td>Solubility (other)</td>
<td>No data available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>&gt; 320 °C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>41.1 - 50.6 mm²/s (40 °C)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Value not relevant for classification</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Value not relevant for classification</td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>Not applicable</td>
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<tr>
<td>9.2 Other information</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous reactions: Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions.


10.6 Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral
Product: Not classified for acute toxicity based on available data.

Dermal
Product: Not classified for acute toxicity based on available data.

Inhalation
Product: Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:
Product: Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation:
Product: Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization:
Product: Skin sensitizer: Based on available data, the classification criteria are not met.
Respiratory sensitizer: Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity
Product: Based on available data, the classification criteria are not met.

Carcinogenicity
Product: Based on available data, the classification criteria are not met.

Reproductive toxicity
Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure
Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure
Product: Based on available data, the classification criteria are not met.

Aspiration Hazard
Product: Based on available data, the classification criteria are not met.

Other adverse effects: No data available.
SECTION 12: Ecological information

12.1 Toxicity

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

Chronic Toxicity
Product: Based on available data, the classification criteria are not met.

12.2 Persistence and Degradability

Biodegradation
Product: Not applicable for mixtures

12.3 Bioaccumulative potential
Product: Not applicable for mixtures

12.4 Mobility in soil:
Product: Not applicable for mixtures

12.5 Results of PBT and vPvB assessment:
The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects:
No data available.

Water Hazard Class (WGK):
WGK 1: slightly water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.
SECTION 14: Transport information

ADR/RID
14.1 UN number or ID number: –
14.2 UN Proper Shipping Name: –
14.3 Transport Hazard Class(es)
   Class: Non-dangerous goods
   Label(s): –
   Hazard No. (ADR): –
   Tunnel restriction code: –
14.4 Packing Group: –
14.5 Environmental hazards: –
14.6 Special precautions for user: –

IMDG
14.1 UN number or ID number: –
14.2 UN Proper Shipping Name: –
14.3 Transport Hazard Class(es)
   Class: Non-dangerous goods
   Label(s): –
   EmS No.: –
14.4 Packing Group: –
14.5 Environmental hazards: –
14.6 Special precautions for user: –

IATA
14.1 UN number or ID number: –
14.2 Proper Shipping Name: –
14.3 Transport Hazard Class(es):
   Class: Non-dangerous goods
   Label(s): –
14.4 Packing Group: –
14.5 Environmental hazards: –
14.6 Special precautions for user: –
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: Regulatory information

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

GB Regulations

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:
none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:
none
Product name: BOGE FoodLub H1SX

15.2 Chemical safety assessment:
No Chemical Safety Assessment has been carried out.

DIRECTIVE Control of Major Accident Hazards Regulations 2015:
Not applicable

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3
none

Other information:
The classification complies with the current GB lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging Principle "Substantially similar mixtures"; Expert Judgement

Revision Date: 05.12.2022

Disclaimer: The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.