

Safety Data Sheet

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

revision: 2018-07-04
Version number: GHS 3.0
Replaces version of: 2018-06-04 (GHS 2)



Food Lube H1

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

1.1 Product identifier

Trade Name: Food Lube H1
Art.No.: 0224

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

Relevant identified uses

Lubricant

1.3 Details of the supplier of the safety data sheet

Profi-Star GmbH
Industriepark 7
D-56593 Horhausen – Deutschland
T +49 (0) 2687 927830 – F +49 (0) 2687 927831
info@profi-star.de

1.4 Emergency telephone number

T +49 (0) 2687 927830; Only available during office hours

Land	Organisation/Firma	Anschrift	Notrufnummer	Anmerkung
Deutschland	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H229

Remarks

For full text of H-phrases: see SECTION 16.

2.2 label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Signal word Danger

Pictograms



GHS02

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurized container: may burst if heated.

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Precautionary statements

Precautionary statements - general

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Precautionary statements – prevention

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.

Precautionary statements – storage

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

2.3 Other hazards

There is no additional information.

SECTION 3: Composition / information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32-xxxx	25 - < 50	Flam. Gas 1 / H220 Press. Gas L / H280	
cyclopentane	CAS No 287-92-3 EC No 206-016-6 REACH Reg. No 01-2119463053-47	10 - < 25	Flam. Liq. 1 / H225 Aquatic Chronic 3 / H412	
propane	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21-xxxx	10 - < 25	Flam. Gas 1 / H220 Press. Gas L / H280	
isobutane	CAS No 75-28-5 EC No 200-857-2 REACH Reg. No 01-2119485395-27-xxxx	1 - < 5	Flam. Gas 1 / H220 Press. Gas C / H280	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

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Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, BC-powder

Unsuitable extinguishing media

water jet .

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

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Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

• Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Flammability hazards

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

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

• Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
GB	butane	106-97-8	WEL	600	1,450	750	1,810	EH40/2005
GB	cycloalkanes (C5-C6)	287-92-3	WEL		1,800			EH40/2005

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

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Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Eye/face protection

Wear eye/face protection.

Skin protection

• hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state aerosol (spray aerosol)
Colour whitish- cloudy
Odour characteristic

Other physical and chemical parameters

pH (value)
Melting point/freezing point not determined
Initial boiling point and boiling range -161.5 °C at 1,013 hPa
Flash point -80 °C (im geschlossenen Tiegel)
Evaporation rate not determined
Flammability (solid, gas) Flammable aerosol in accordance with GHS criteria
Explosive limits
• lower explosion limit (LEL) 5 vol%
• upper explosion limit (UEL) 15 vol%
Vapour pressure 2,500 - 3,000 hPa at 20 °C
Density 0.75 – 0.79 g/cm³ at 20 °C
Solubility(ies) not determined
Partition coefficient
n-octanol/water (log KOW) this information is not available
Auto-ignition temperature 287 °C (auto-ignition temperature (liquids and gases))
537 °C (relative self-ignition temperature for solids)
Viscosity not relevant (aerosol)
Explosive properties none
Oxidising properties none

9.2 Other information

Solvent content 49,41 %
Solid content 1,008 %
propellant content 49,58 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

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10.2. Chemical stability

See below "Conditions to avoid".

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

10.5. Incompatible materials

oxidisers

10.6. Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butane	106-97-8	LC50	27.98 mg/l	fish	96 h
butane	106-97-8	EC50	7.71 mg/l	algae	96 h
propane	74-98-6	LC50	27.98 mg/l	fish	96 h
propane	74-98-6	EC50	7.71 mg/l	algae	96 h
isobutane	75-28-5	LC50	49.9 mg/l	fish	96 h
isobutane	75-28-5	EC50	19.37 mg/l	algae	96 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
butane	106-97-8		1.09 (pH value: 7, 20 °C)	
propane	74-98-6		1,09 (pH value: 7, 20 °C)	
isobutane	75-28-5		1,09 (pH value: 7, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

Class

Subsidiary risk(s)

14.4 Packing group

1950

AEROSOLS

2 (gases) (aerosol)

2.1 (flammability)

not assigned to a packing group

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- 14.5 Environmental hazards** none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6 Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number **1950**
Proper shipping name **AEROSOLS**
Class **2**
Classification code **5F**
Danger label(s) **2.1**



Special provisions (SP) 190, 327, 344, 625
Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
Transport category (TC) 2
Tunnel restriction code (TRC) D

• International Maritime Dangerous Goods Code (IMDG)

UN number 1950
Proper shipping name AEROSOLS
Class 2.1
Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
EmS F-D, S-U
Stowage category -

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1950
Proper shipping name Aerosols, flammable
Class 2.1
Danger label(s) 2.1



Special provisions (SP) A145, A167
Excepted quantities (EQ) E0
Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

- Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol Extremely flammable

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Labelling

Pressurized container: may burst if heated
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking
Do not pierce or burn, even after use
Protect from sunlight. Do not expose to temperatures exceeding 50 °C

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Other means of identification		yes
1.1	Article number:0224		yes
1.1		Other means of identification: 0224	yes
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	
2.1	Supplemental hazard information		yes
2.1		Supplemental hazard information: change in the listing (table)	
2.1	The most important adverse physicochemical, human health and environmental effects: Spillage and fire water can cause pollution of water-courses.		yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2	Precautionary statements - response		yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2		Precautionary statements - storage: change in the listing (table)	yes
2.2	Precautionary statements - disposal		yes
2.2		Precautionary statements - disposal: change in the listing (table)	yes
2.2	Additional labelling requirements		yes
2.2		Additional labelling requirements: change in the listing (table)	yes
2.2	Child-resistant fastening: yes		yes
2.2	Tactile warning of danger: yes		yes
2.2	Hazardous ingredients for labelling: pentane		yes
2.3	Other hazards: Repeated exposure may cause skin dryness or cracking.	Other hazards: There is no additional information.	yes
3.2		Description of the mixture: change in the listing (table)	yes
4.2	Most important symptoms and effects, both acute and delayed: Narcotic effects.	Most important symptoms and effects, both acute and delayed: Symptoms and effects are not known to date.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	
8.1	Relevant DNELs/DMELs/PNECs and other threshold levels		yes
8.1	• relevant DNELs of components of the mixture		yes
8.1		• relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1	• relevant PNECs of components of the mixture		yes
8.1		• relevant PNECs of components of the mixture: change in the listing (table)	yes
9.1	• lower explosion limit (LEL): 1.4 vol%	• lower explosion limit (LEL): 5 vol%	yes
9.1	Auto-ignition temperature: 260 °C (auto-ignition temperature (liquids and gases)) 537 °C (relative self-	Auto-ignition temperature: 287 °C (auto-ignition temperature (liquids and gases)) 537 °C (relative self-	yes

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	ignition temperature for solids)	ignition temperature for solids)	
11.1	Specific target organ toxicity (STOT)	Specific target organ toxicity (STOT): Shall not be classified as a specific target organ toxicant.	yes
11.1	• Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.		yes
11.1	• Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).		yes
11.1	Other information: Repeated exposure may cause skin dryness or cracking.		yes
11.1	Aspiration hazard: May be fatal if swallowed and enters airways.	Aspiration hazard: Shall not be classified as presenting an aspiration hazard.	yes
12.1	Toxicity: Harmful to aquatic life with long lasting effects.	Toxicity: Shall not be classified as hazardous to the aquatic environment.	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.2	Persistence and degradability	Persistence and degradability: Data are not available.	yes
12.2	Degradability of components of the mixture		yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)		yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit

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TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurized container: may burst if heated.
H280	Contains gas under pressure; may explode if heated.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.