

Interflon Grease HTG (Aerosol)

Version number:
5.0
Replaces version: 4:

Date of issue
2024-08-12

Revision:
2024-08-12.

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

1.1 Product identifier

Trade name **Interflon Grease HTG (Aerosol)**

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

Scope lubricant

1.3 Details of the supplier of the safety data sheet

Interflon BV
Belder 47
4704 RK Roosendaal
Netherlands

Telephone: +31 (0)165 553911
e-mail: Service@Interflon.com
Website: www.Interflon.com

e-mail (competent person) msds.za@interflon.com

1.4 Emergency telephone number

| Poison centre | | | |
|---|--------|--------------|-----------------|
| Name | Street | City | Telephone |
| Bloemfontein Poison Control and Medicine Information Centre | | Bloemfontein | +27 824 910 160 |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 2.3 | aerosols | 1 | Aerosol 1 | H222,H229 |
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 3 | Aquatic Chronic 3 | H412 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

- Signal word. danger

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

- Pictograms

GHS02, GHS07



- Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
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 dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics,
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics, Hydrocarbons, C6, isoalkanes, <5% n-hexane

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Product description

Mixture of synthetic oils, thickener, additives and Micpol®

Hazardous ingredients

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
|-------------------|--------------------|-----------|---|--------------|
| butane | CAS No 106-97-8 | 10 – < 25 | Flam. Gas 1 / H220 Press. Gas C / H280 | C(a) K(b) |
| Propane | CAS No 74-98-6 | 10 – < 25 | Flam. Gas 1 / H220 Press. Gas L / H280 | |

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
|---|-------------------|-----------|---|---------------------|
| isobutane | CAS No 75-28-5 | 10 – < 25 | Flam. Gas 1 / H220 Press. Gas C / H280 | C(a) GHS-HC U |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | CAS No 64742-49-0 | 10 – < 25 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411 | |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | 5 – < 10 | Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412 | |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | CAS No 64742-49-0 | 5 – < 10 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 | |

Notes

- C(a): Mixture of isomers
GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
K(b): The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-) P210-P403 should apply
U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Regulation 648/2004/EC on detergents

| Wt% | Constituents | Weight % content (or range) |
|------|------------------------|-----------------------------|
| ≥30% | aliphatic hydrocarbons | 30 % and more |

For full text of Hazard- and EU Hazard-statements: 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.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. 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.

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

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 mist, Fire extinguishing powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

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. Use suitable breathing apparatus.

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. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

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.

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

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

Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink.

7.2 Conditions for safe storage, including any incompatibilities

Conditions of storage

Store in accordance with local/regional/national/international regulations. Keep container tightly closed and in a well-ventilated place.

Managing of associated risks

- Flammability hazards
Do not spray on an open flame or other ignition source. Protect from sunlight. Keep in a cool place.
- Packaging compatibilities
Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) 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

Occupational exposure limit values (Workplace Exposure Limits)
not relevant

| 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] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| ZA | butane | 106-97-8 | OEL (DME) | 600 | 1,430 | 750 | 1,780 | | | | DME |
| ZA | butane | 106-97-8 | OEL (DoL) | 600 | 1,430 | 750 | 1,780 | | | | DoL-OEL |
| ZA | propane | 74-98-6 | OEL (DME) | 1,000 | 1,800 | | | | | | DME |

Notation

Ceiling-C
STEL

TWA

ceiling value is a limit value above which exposure should not occur
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)
time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

| Relevant DNELs of components | | | | | | |
|---|------------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | DNEL | 2,085 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | DNEL | 300 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | DNEL | 871 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | DNEL | 77 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 64742-49-0 | DNEL | 5,306 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 64742-49-0 | DNEL | 13,964 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

8.2 Exposure controls

General safety precautions

Use only in well-ventilated areas.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.
Keep away from food, drink and animal feedingstuffs. Do not breathe gas/vapour/spray. Wash hands after use.

Individual protection measures (personal protective equipment)

Eye/face protection

Work with safety glasses.

Skin protection

- Hand protection

Wear protective gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Type of material. NBR: acrylonitrile-butadiene rubber. CR: chloroprene (chlorobutadiene) rubber. PVC: polyvinyl chloride.

- 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. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

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

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | liquid, gaseous (spray aerosol) |
| Colour | brown |
| Odour | Like oil |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | -0 °C at 1,013 hPa |
| Flammability | flammable aerosol in accordance with GHS criteria |
| Lower and upper explosion limit | 1.5 vol% - 10 vol% |
| Flash point | >300 °C |
| Auto-ignition temperature | >400 °C (auto-ignition temperature (liquids and gases)) |
| Decomposition temperature | not relevant |
| pH (value) | not determined |
| Kinematic viscosity | 631,068 mm ² /s at 20 °C not relevant |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|-----------------|--------------------|
| Vapour pressure | 3,800 hPa at 20 °C |
|-----------------|--------------------|

Density and/or relative density

| | |
|-------------------------|---|
| Density | 1.03 g/cm ³ at 20 °C |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|------------------------|
| Particle characteristics | not relevant (aerosol) |
|--------------------------|------------------------|

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

9.2 Other information

Information with regard to physical hazard classes

Aerosols

| | |
|------------------------------|--|
| - Components (flammable) | 79.99 % 79.99 % by mass of the contents are flammable |
| Other safety characteristics | there is no additional information |

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.

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.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

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 acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Skin corrosion/irritation

Causes skin irritation.

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.

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

| Aquatic toxicity (chronic) of components | | | | | |
|--|------------|----------|-----------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | EL50 | 1.6 mg/l | aquatic invertebrates | 21 d |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | EC50 | 0.23 mg/l | aquatic invertebrates | 21 d |

12.2 Persistence and degradability

| Degradability of components | | | | | | |
|---|------------|---------------------------|------------------|------|--------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method | Source |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | oxygen depletion | 83 % | 16 d | | ECHA |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | oxygen depletion | 8 % | 3 d | | ECHA |
| Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | | carbon dioxide generation | 0 % | 3 d | | ECHA |

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

| Degradability of components | | | | | | |
|--|------------|------------------|------------------|------|--------|--------|
| Name of sub-stance | CAS No | Process | Degradation rate | Time | Method | Source |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 64742-49-0 | oxygen depletion | 83 % | 10 d | | ECHA |

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components | | | | |
|--|------------|-------|---------------------------|----------|
| 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) | |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 64742-49-0 | 501.2 | 3.6 (pH value: 7, 20 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

12.7 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.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. This article should be disposed of as hazardous waste. Please do not put it in your normal household waste. Dispose of this material and its container to hazardous or special waste collection point. 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.

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

SECTION 14: Transport information

14.1 UN number or ID number

| | |
|-----------|---------|
| UN RTDG | UN 1950 |
| IMDG-Code | UN 1950 |
| ICAO-TI | UN 1950 |

14.2 UN proper shipping name

| | |
|-----------|---------------------|
| UN RTDG | AEROSOLS |
| IMDG-Code | AEROSOLS |
| ICAO-TI | Aerosols, flammable |

14.3 Transport hazard class(es)

| | |
|-----------|-----|
| UN RTDG | 2.1 |
| IMDG-Code | 2.1 |
| ICAO-TI | 2.1 |

14.4 Packing group

not assigned

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport information - National regulations - Additional information (UN RTDG)

| | |
|-----------------|------|
| UN number | 1950 |
| Class | 2.1 |
| Danger label(s) | 2.1 |



| | |
|--------------------------|--|
| Special provisions (SP) | 63, 190, 277, 327, 344, 381, 959 (UN RTDG) |
| Excepted quantities (EQ) | E0 (UN RTDG) |
| Limited quantities (LQ) | 1 L (UN RTDG) |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|------------------|-----|
| Marine pollutant | - |
| Danger label(s) | 2.1 |



| | |
|-------------------------|----------------------------------|
| Special provisions (SP) | 63, 190, 277, 327, 344, 381, 959 |
|-------------------------|----------------------------------|

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

| | |
|--------------------------|----------|
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| EmS | F-D, S-U |
| Stowage category | - |

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

| | |
|-----------------|-----|
| 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

There is no additional information.

National inventories

| Country | Inventory | Status |
|---------|------------|---|
| CA | DSL | all ingredients are listed |
| EU | REACH Reg. | all ingredients are listed or exempt from listing |
| US | TSCA | all ingredients are listed |

Legend

DSL Domestic Substances List (DSL)
REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-rel- evant |
|---------|---|---|----------------------|
| 1.3 | e-mail (competent person): Service@interflon.com (Service lab) | e-mail (competent person): msds.za@interflon.com | yes |
| 1.4 | | Poison centre: change in the listing (table) | yes |
| 2.3 | Other hazards | Other hazards: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | yes |
| 2.3 | Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a con- centration of $\geq 0,1\%$. | yes |

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$. | yes |
| 3.2 | | Hazardous ingredients: change in the listing (table) | yes |
| 3.2 | | Regulation 648/2004/EC on detergents | yes |
| 3.2 | | Regulation 648/2004/EC on detergents: 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 |
| 5.1 | Suitable extinguishing media: Water spray, BC-powder | Suitable extinguishing media: Water mist, Fire extinguishing powder | yes |
| 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. | 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. Use suitable breathing apparatus. | yes |
| 6.2 | Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. | Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority. | yes |
| 7.1 | 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. | Advice on general occupational hygiene: Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink. | yes |
| 7.2 | - Flammability hazards: Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. | - Flammability hazards: Do not spray on an open flame or other ignition source. Protect from sunlight. Keep in a cool place. | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): not relevant | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |
| 8.1 | | Relevant DNELs of components: change in the listing (table) | yes |
| 8.2 | General safety precautions: Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Do not eat, drink and smoke in work areas. | General safety precautions: Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Keep away from food, drink and animal feedingstuffs. Do not breathe gas/vapour/spray. Wash hands after use. | yes |

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| 8.2 | Eye/face protection: Wear eye/face protection. Use safety goggle with side protection. | Eye/face protection: Work with safety glasses. | yes |
| 8.2 | Hand protection: When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Type of material. NBR: acrylonitrile-butadiene rubber. CR: chloroprene (chlorobutadiene) rubber. PVC: polyvinyl chloride. | Hand protection: Wear protective gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Type of material. NBR: acrylonitrile-butadiene rubber. CR: chloroprene (chlorobutadiene) rubber. PVC: polyvinyl chloride. | yes |
| 8.2 | Respiratory protection: Not required. | Respiratory protection: [In case of inadequate ventilation] wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White). | yes |
| 9.1 | Appearance | | yes |
| 9.1 | Physical state: aerosol (spray aerosol) | Physical state: liquid, gaseous (spray aerosol) | yes |
| 9.1 | Other safety parameters | | yes |
| 9.1 | Initial boiling point and boiling range | Boiling point or initial boiling point and boiling range | yes |
| 9.1 | Flammability (solid, gas) | Flammability | yes |
| 9.1 | Explosive limits | Lower and upper explosion limit: 1.5 vol% - 10 vol% | yes |
| 9.1 | Evaporation rate: not determined | | yes |
| 9.1 | Lower explosion limit (LEL): 1.5 vol% | | yes |
| 9.1 | Upper explosion limit (UEL): 10 vol% | | yes |
| 9.1 | | Decomposition temperature: not relevant | yes |
| 9.1 | Kinematic viscosity: 631,068 mm ² /s at 20 °C | Kinematic viscosity: 631,068 mm ² /s at 20 °C not relevant | yes |
| 9.1 | - n-octanol/water (log KOW) | Partition coefficient n-octanol/water (log value) | yes |
| 9.1 | | Density and/or relative density | yes |
| 9.1 | Vapour density: this information is not available | | yes |
| 9.1 | Viscosity | | yes |
| 9.1 | Dynamic viscosity: 650 Pa s at 20 °C | | yes |
| 9.1 | Explosive properties: none | | yes |
| 9.1 | Oxidising properties: none | | yes |
| 9.2 | Propellant content: 50.99 % | | yes |

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

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|---------|--|--|-----------------|
| 9.1 | | Relative vapour density: information on this property is not available | yes |
| 9.1 | | Particle characteristics: not relevant (aerosol) | yes |
| 9.2 | | Information with regard to physical hazard classes | yes |
| 9.2 | | Aerosols | yes |
| 9.2 | | Components (flammable): 79.99 % 79.99 % by mass of the contents are flammable | yes |
| 9.2 | | Other safety characteristics: there is no additional information | yes |
| 11.2 | | Information on other hazards: There is no additional information. | yes |
| 12.1 | | Aquatic toxicity (chronic) of components: change in the listing (table) | yes |
| 12.2 | | Degradability of components: change in the listing (table) | yes |
| 12.3 | | Bioaccumulative potential of components: change in the listing (table) | yes |
| 12.5 | Results of PBT and vPvB assessment: Data are not available. | Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | yes |
| 12.6 | Endocrine disrupting potential: None of the ingredients are listed. | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$. | yes |
| 12.7 | Other adverse effects | Other adverse effects: Data are not available. | yes |
| 13.1 | Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. | Sewage disposal-relevant information: Do not empty into drains. | yes |
| 13.1 | Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. | Waste treatment of containers/packages: Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. This article should be disposed of as hazardous waste. Please do not put it in your normal household waste. Dispose of this material and its container to hazardous or special waste collection point. Handle contaminated packages in the same way as the substance itself. | yes |
| 14.1 | UN number: 1950 | UN number or ID number | yes |
| 14.1 | | UN RTDG: UN 1950 | yes |
| 14.1 | | IMDG-Code: UN 1950 | yes |
| 14.1 | | ICAO-TI: UN 1950 | yes |

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-rel- evant |
|---------|---|---|----------------------|
| 14.2 | UN proper shipping name: AEROSOLS | UN proper shipping name | yes |
| 14.2 | | UN RTDG: AEROSOLS | yes |
| 14.2 | | IMDG-Code: AEROSOLS | yes |
| 14.2 | | ICAO-TI: Aerosols, flammable | yes |
| 14.3 | Class: 2.1 (gases) (aerosol) (flammable) | | yes |
| 14.3 | | UN RTDG: 2.1 | yes |
| 14.3 | | IMDG-Code: 2.1 | yes |
| 14.3 | | ICAO-TI: 2.1 | yes |
| 14.4 | Packing group: not assigned to a packing group | Packing group: not assigned | yes |
| 14.7 | Transport in bulk according to Annex II of MAR- POL and the IBC Code | Maritime transport in bulk according to IMO in- struments | yes |
| 14.7 | Proper shipping name: AEROSOLS | | yes |
| 14.7 | International Maritime Dangerous Goods Code (IMDG) | International Maritime Dangerous Goods Code (IMDG) - Additional information | yes |
| 14.7 | UN number: 1950 | | yes |
| 14.7 | Proper shipping name: AEROSOLS | | yes |
| 14.7 | Class: 2.1 | | yes |
| 14.7 | International Civil Aviation Organization (ICAO- IATA/DGR) | International Civil Aviation Organization (ICAO- IATA/DGR) - Additional information | yes |
| 14.7 | UN number: 1950 | | yes |
| 14.7 | Proper shipping name: Aerosols, flammable | | yes |
| 14.7 | Class: 2.1 | | 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) | List of relevant phrases (code and full text as stated in section 2 and 3) | yes |
| 16 | | List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table) | yes |

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|--|
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| Asp. Tox. | Aspiration hazard |
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DME | Department of Minerals and Energy: Mine Health and Safety Act, 1996 (Occupational Exposure Limits for Airborne Pollutants) |
| DNEL | Derived No-Effect Level |
| DoL-OEL | Department of Labour: Hazardous Chemical Substances Regulations, 1995 (Occupational Exposure Limits - Control Limits/Recommended Limits) |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ED | Endocrine disruptor |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| 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 |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| log KOW | n-Octanol/water |
| PBT | Persistent, Bioaccumulative and Toxic |
| ppm | Parts per million |
| Press. Gas | Gas under pressure |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |

Interflon Grease HTG (Aerosol)

Version number: 5.0
Replaces version of: 2018-03-14 (4)

date of issue
2024-08-12

Revision: 2024-08-12

| Abbr. | Descriptions of used abbreviations |
|---------|---|
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| TWA | Time-weighted average |
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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 section 2 and 3)

| Code | Text |
|------|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| 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.