

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/05/2022


Version 7

Reviewed on 05/05/2022

1 Identification

- **Product identifier**
- **Trade name:** Lubrication Paste G-N Plus
- **Article number:**
53708603
53708606
- **Application of the substance / the mixture** Grease
- **Details of the supplier of the safety data sheet**
- **Supplier:**
Alfa Laval Technologies AB
SE-221 00 Lund
Sweden
+46 46 36 65 00
info.se@alfalaval.com
- **Information department:**
For additional questions regarding safety data sheets please contact your local Alfa Laval Sales Company which you find on www.alfalaval.com or in safety data sheet under section 16: Other Information
- **Emergency telephone number:**
Call CHEMTREC
+1 703-741-5970 / 1-800-424-9300 CCN 844

2 Hazard(s) identification

- **Classification of the substance or mixture**
Skin Irritation 2 H315 Causes skin irritation.
Eye Damage 1 H318 Causes serious eye damage.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

- **Signal word** Danger
- **Hazard-determining components of labeling:**
calcium dihydroxide
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
- **Precautionary statements**
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 If on skin: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.

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P332+P313 If skin irritation occurs: Get medical advice/attention.

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Other hazards**Results of PBT and vPvB assessment****PBT:** The product is not, nor contains, a substance that is PBT**vPvB:** The product is not, nor contains a substance that is, vPvB.

3 Composition/information on ingredients

Chemical characterization: Mixtures**Description:** Mixture: consisting of the following components.**Dangerous components:**

CAS: 8042-47-5	White mineral oil, petroleum	33-49%
CAS: 1305-62-0	calcium dihydroxide Eye Damage 1, H318; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335	21-31%
CAS: 7782-42-5	Graphite Acute Toxicity - Inhalation 4, H332	8-12%
CAS: 1317-33-5	molybdenum disulphide	6-10%
CAS: 8002-74-2	Paraffin waxes and Hydrocarbon waxes	2.6-3.5%

4 First-aid measures

Description of first aid measures**General information:** Wash contaminated clothing before reuse.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

If skin irritation continues, consult a doctor.

Immediately rinse with water.

After eye contact:

Rinse opened eye for several minutes under running water and consult a doctor.

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing:

Do NOT induce vomiting.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:**

Foam

Water spray

Fire-extinguishing powder

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- Carbon dioxide
- Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture**
 - Formation of toxic gases is possible during heating or in case of fire.
 - Carbon monoxide and carbon dioxide
 - Formaldehyde
 - Sulphur dioxide (SO₂)
- **Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Avoid contact with spilled material.
 - Particular danger of slipping on leaked/spilled product.
 - See Section 8 for information on personal protection equipment.
 - Wear protective equipment. Keep unprotected persons away.
 - Do not breathe vapour.
- **Environmental precautions:**
 - Do not allow to enter sewers/ surface or ground water.
 - Send for recovery or disposal in suitable receptacles.
- **Methods and material for containment and cleaning up:**
 - Send for recovery or disposal in suitable receptacles.
 - Use neutralizing agent.
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.
- **Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

PAC-1:

CAS: 1305-62-0	calcium dihydroxide	15 mg/m ³
CAS: 1317-33-5	molybdenum disulphide	50 mg/m ³

PAC-2:

CAS: 1305-62-0	calcium dihydroxide	240 mg/m ³
CAS: 1317-33-5	molybdenum disulphide	260 mg/m ³

PAC-3:

CAS: 1305-62-0	calcium dihydroxide	1,500 mg/m ³
CAS: 1317-33-5	molybdenum disulphide	1,600 mg/m ³

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7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Do not breathe vapour.
Keep receptacles tightly sealed.
Thorough dedusting.
When using do not eat, drink or smoke.
See Section 8 for information on personal protection equipment.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Store away from flammable substances.
Keep receptacle tightly sealed.
- **Specific end use(s)**
Lubricant
Professional use only.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:**
Eye wash bottle or emergency eye wash fountain must be found in the work place
- **Control parameters**

· Components with limit values that require monitoring at the workplace:

CAS: 8042-47-5 White mineral oil, petroleum

TLV	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ Oil mist
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CAS: 1305-62-0 calcium dihydroxide

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³

CAS: 7782-42-5 Graphite

PEL	Long-term value: 15 mppcf* mg/m ³ *impinger samples counted by light field techn.
REL	Long-term value: 2.5* mg/m ³ *respirable dust
TLV	Long-term value: 2* mg/m ³ all forms except graphite fibers; *resp. fraction

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Trade name: Lubrication Paste G-N Plus

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CAS: 1317-33-5 molybdenum disulphide

PEL	Long-term value: 15* mg/m ³ *Total dust, as Mo
TLV	Long-term value: 10* 3** mg/m ³ as Mo; *inhalable fraction ** respirable fraction

CAS: 8002-74-2 Paraffin waxes and Hydrocarbon waxes

REL	Long-term value: 2 mg/m ³
TLV	Long-term value: 2 mg/m ³

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not carry product impregnated cleaning cloths in trouser pockets.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Use only in well-ventilated areas.

In case of insufficient ventilation, wear suitable respiratory equipment.

· **Breathing equipment:**

Combined particles and organic fumetype (Filter A-P)



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

PVC or PE gloves

Nitrile rubber, NBR

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

· Body protection:



Protective work clothing

· Limitation and supervision of exposure into the environment

Do not allow to enter sewers/ surface or ground water.
Send for recovery or disposal in suitable receptacles.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Highly viscous

Color: Grey

· Odor: Odorless

· Odor threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash point: >200 °C (>392 °F)

· Flammability (solid, gaseous): Not determined.

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits: Not determined.

· Lower: Not determined.

· Upper: Not determined.

· Oxidizing properties: Not applicable.

· Vapor pressure: Not applicable.

· Density at 20 °C (68 °F): 1.35 g/cm³ (11.26575 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not applicable.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

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- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

- Dynamic:**

Not determined.

- Kinematic:**

Not applicable.

Not determined.

- **Solvent content:**

- VOC content:**

0.00 %

- **Other information**

No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Possibility of hazardous reactions**

Reacts with oxidizing agents.

When heated to temperatures above 150°C in the presence of air product can form formaldehyde vapours

- **Conditions to avoid** High temperature

- **Incompatible materials:** Reacts with strong oxidizing agents.

- **Hazardous decomposition products:**

Hydrocarbons

Formaldehyde

Phosphorus compounds

Sulfur oxides (SO_x)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

CAS: 8042-47-5 White mineral oil, petroleum

Dermal LD50 >2,000 mg/kg (Rabbit)

CAS: 1305-62-0 calcium dihydroxide

Oral LD50 >2,000 mg/kg (Rat) (OECD Test 425)

Dermal LD50 >2,500 mg/kg (Rabbit) (OECD Test 402)

CAS: 7782-42-5 Graphite

Oral LD50 >2,000 mg/kg (Rat) (OECD Test 401)

Inhalative LC50 (4 h) >2 mg/L (Rat) (OECD Test 403)

CAS: 1317-33-5 molybdenum disulphide

Oral LD50 >2,000 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rat)

Inhalative LC50 (4 h) >2.82 mg/L (Rat)

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Trade name: Lubrication Paste G-N Plus

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CAS: 8002-74-2 Paraffin waxes and Hydrocarbon waxes

Oral	LD50	>5,000 mg/kg (Rat) (OECD Test 401)
Dermal	LD50	>2,000 mg/kg (Rat) (OECD Test 402)

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye:

Strong irritant with the danger of severe eye injury.

Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

12 Ecological information

Toxicity

Aquatic toxicity:

CAS: 8042-47-5 White mineral oil, petroleum

LC50	>100 mg/L (Salmon trout) (OECD Test 203)
EC50	>100 mg/L (Daphnia) (OECD TG 202)
NOEC - No observed effect concentration	100 mg/l (Algae) (OECD TG 201)
	1 mg/l (Daphnia)
	1 mg/l (Fish)

CAS: 1305-62-0 calcium dihydroxide

LC50 (96 h)	50.6 mg/L (Fish)
EC50 (48 h)	49.1 mg/L (Daphnia) (OECD Test 202)
EC50 (72 h)	184.57 mg/L (Algae) (OECD Test 201)
NOEC - No observed effect concentration	32 mg/l (Daphnia)

CAS: 7782-42-5 Graphite

LC50 (96 h)	>100 mg/L (Fish) (OECD Test 203)
EC50	>100 mg/L (Daphnia) (OECD Test 202)
EC50 (72 h)	>100 mg/L (Algae) (OECD Test 201)

CAS: 1317-33-5 molybdenum disulphide

LC50 (96 h)	>100 mg/L (Fish)
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EC50	>100 mg/L (Daphnia)
EC50 (72 h)	>100 mg/L (Algae)
NOEC - No observed effect concentration	>10 mg/l (Daphnia)
	>10 mg/l (Fish)

CAS: 8002-74-2 Paraffin waxes and Hydrocarbon waxes

LC50	>100 mg/L (Fish)
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Persistence and degradability**CAS: 8042-47-5 White mineral oil, petroleum**

Biodegradability 31 % (No information available)

Behavior in environmental systems:

- **Bioaccumulative potential** Does not accumulate in organisms
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** The product is not, nor contains, a substance that is PBT
- **vPvB:** The product is not, nor contains a substance that is, vPvB.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation:**

Hand over to hazardous waste disposers.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:**

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

· UN-Number	The product is not classified as dangerous goods.
· DOT, ADR, IMDG, IATA	Void
· UN proper shipping name	Not relevant.
· DOT, ADR, IMDG, IATA	Void
· Transport hazard class(es)	The product is not classified as dangerous goods.
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	Not applicable.
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.

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- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** Void

15 Regulatory information

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

EU Regulation (EC) no.1907/2006 (REACH)

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



- **Signal word** Danger

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- **Hazard-determining components of labeling:**
calcium dihydroxide
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
- **Precautionary statements**
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 If on skin: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

Please contact your local Alfa Laval Sales Company for further questions.

www.alfalaval.com

- **Department issuing SDS:** Alfa Laval Corporate Standards & Regulatory Operations

- **Contact:**

Please contact your local Alfa Laval Sales Company for further questions.

Argentina: alfa.consulta@alfalaval.com

Australia: australia.info@alfalaval.com

Austria: info.mideurope@alfalaval.com

Belgium: benelux.info@alfalaval.com

Bolivia: alfa.consulta@alfalaval.com

Brazil: alfalaval.br@alfalaval.com

Bulgaria: bulgaria.info@alfalaval.com

Canada: alfacan.info@alfalaval.com

Chile: chile.informacion@alfalaval.com

China: china.info@alfalaval.com

Colombia: info.colombia@alfalaval.com

Croatia: hrvatska.info@alfalaval.com

Czech Republic: czechrepublic.info@alfalaval.com

Denmark: info.nordic.dk@alfalaval.com

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Egypt: alme.marketing@alfalaval.com
Estonia: estonia.info@alfalaval.com
Finland: info.fi@alfalaval.com
France: environnement@alfalaval.com
Germany: info.mideurope@alfalaval.com
Greece: greece.info@alfalaval.com
Hungary: info.hu@alfalaval.com
India: india.info@alfalaval.com
Indonesia: alfalindo@alfalaval.com
Israel: israel.info@alfalaval.com
Italy: alfalaval.italia@alfalaval.com
Japan: hp.alfajp@alfalaval.com
Latvia: latvia.info@alfalaval.com
Lithuania: lithuania.info@alfalaval.com
Malaysia: malaysia.info@alfalaval.com
Mexico: mexico.info@alfalaval.com
The Netherlands: benelux.info@alfalaval.com
New Zealand: newzealand.info@alfalaval.com
Norway: info.no@alfalaval.com
Peru: ventas.peru@alfalaval.com
Philippines: philippines.info@alfalaval.com
Poland: poland.info@alfalaval.com
Portugal: portugal.info@alfalaval.com
Qatar: alme.marketing@alfalaval.com
Romania: romania.info@alfalaval.com
Russia: moscow.response@alfalaval.com
Singapore: al.singapore@alfalaval.com
Slovak Republic: slovakia.info@alfalaval.com
Slovenia: slovenija.info@alfalaval.com
South Africa: info.sa@alfalaval.com
Spain: info.spain@alfalaval.com
Sweden: info.se@alfalaval.com
Switzerland: info.mideurope@alfalaval.com
Taiwan: taiwan.info@alfalaval.com
Thailand: thailand.info@alfalaval.com
Turkey: turkey@alfalaval.com
Ukraine: ukraine.info@alfalaval.com
United Arab Emirates: alme.marketing@alfalaval.com
United Kingdom: general.uk@alfalaval.com
United States: customerservice.usa@alfalaval.com
Venezuela: venezuela.info@alfalaval.com
Vietnam: vietnam.info@alfalaval.com

• **Date of preparation / last revision** 05/05/2022 / 6

• **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Toxicity - Inhalation 4: Acute toxicity – Category 4
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
* **Data compared to the previous version altered.**

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