

Safety Data Sheet
according to UK REACH (SI 2020/1577) as amended

Printing date 11.07.2025

Version number 1

Revision: 11.07.2025

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

· 1.1 Product identifier

· **Trade name:** Geartech G-EP 75W-80

· **Registration number** Mixture

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

· **Product category** PC24 Lubricants, greases, release products

· **Application of the substance / the mixture** Lubricant

· **Uses advised against** Processes involving extreme heat use advised against.

· 1.3 Details of the supplier of the safety data sheet

· Supplier:

Smith & Allan

Valley Street North

Darlington

County Durham

DL1 1QE

Tel: 01325 462228

Fax: 01325 368122

e-mail: enquiries@smithandallan.com

· **Further information obtainable from:** Product safety department.

· 1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to GB-CLP** The product is not classified, according to the GB CLP regulation.

· 2.2 Label elements

· **Labelling according to GB-CLP** Not applicable

· **Hazard pictograms** Not applicable

· **Signal word** Not applicable

· **Hazard statements** Not applicable

· Additional information:

EUH208 Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

· 2.3 Other hazards

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** A blend of highly refined mineral oils with multifunctional additives.

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· Dangerous components:

CAS: 68037-01-4 NLP: 500-183-1 Reg.nr.: 01-2119486452-34-XXXX	Synthetic base oil  Asp. Tox. 1, H304	2.5 – 10%
CAS: 68937-96-2 EINECS: 273-103-3 Reg.nr.: UK-01-2783246473-2	Polysulfides, di-tert-Bu  Skin Sens. 1B, H317; Aquatic Chronic 3, H412 Specific concentration limit: Skin Sens. 1B; H317: C ≥ 46 %	2.5 – 10%
	Highly refined low-viscosity mineral oil**  Asp. Tox. 1, H304	1 – 2.5%
EC number: 931-384-6 Reg.nr.: UK-01-3357647710-4	Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)  Aquatic Chronic 2, H411;  Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 50 % Skin Sens. 1; H317: C ≥ 9.39 %	1 – < 2.5%
CAS: 13703-82-7 EINECS: 237-235-5 Reg.nr.: 01-2120769073-53-XXXX	Magnesium metaborate  Skin Sens. 1B, H317 Specific concentration limit: Skin Sens. 1B; H317: C ≥ 15 %	0.1 – 1%

· Additional information:

**Mineral oil may be described by one or more of the following: EC No. 265-157-1, Distillates (petroleum), hydrotreated heavy paraffinic; EC No. 265-169-7, Distillates (petroleum), solvent-dewaxed heavy paraffinic; EC No. 265-158-7, Distillates (petroleum), hydrotreated light paraffinic; EC No. 265-159-2, Distillates (petroleum), solvent-dewaxed light paraffinic.

Mineral oil contains <3% DMSO extract as measured by IP346.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Wash mouth out with water
Do not induce vomiting; call for medical help immediately.
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- **Information for doctor:** Treat symptomatically and supportively.

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- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Combustible

In case of fire, the following can be released:

Boron compounds

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Phosphorous oxides

Sulphur Oxides (SO_x)

Toxic metal oxide smoke

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· **6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

- **Information about fire - and explosion protection:** Do not heat up to temperatures close to flash point.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.

- **Information about storage in one common storage facility:** Store away from oxidising agents.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store in a bunded area.

- **Storage class: 10**

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

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs**

Highly refined low-viscosity mineral oil**

Oral	Long-term systemic effects	740 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	970 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	2.73 mg/m ³ (worker)
	Long-term local effects	1.19 mg/m ³ (general population)
		5.58 mg/m ³ (worker)

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Oral	Long-term systemic effects	250 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	6.25 mg/kg bw/day (general population)
		12.5 mg/kg bw/day (worker)
	Long-term local effects	160 µg/kg bw/day (general population)
		160 µg/kg bw/day (worker)
	Short-term local effects	160 µg/kg bw/day (general population)
		160 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	1.09 mg/m ³ (general population)
		4.28 mg/m ³ (worker)

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CAS: 13703-82-7 Magnesium metaborate

Oral	Long-term systemic effects	280 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	7.78 mg/kg bw/day (worker)
	Long-term systemic effects	278 µg/kg bw/day (general population)
Inhalative	Long-term systemic effects	5.49 mg/m ³ (worker)
	Long-term systemic effects	820 µg/m ³ (general population)

· PNECs

Highly refined low-viscosity mineral oil**

Secondary poisoning	9.33 mg/kg food
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Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Freshwater	2.4 µg/L
Freshwater - Intermittent releases	150 µg/L
Marine water	240 ng/L
Marine Water - Intermittent releases	15 µg/L
Sewage Treatment Plant	24.33 mg/L
Sediment (freshwater)	12.9 µg/kg
Sediment (marine water)	1.29 µg/kg
Soil	1.17 µg/kg
Secondary poisoning	10 mg/kg food

CAS: 13703-82-7 Magnesium metaborate

Freshwater	50 µg/L
Freshwater - Intermittent releases	500 µg/L
Marine water	50 µg/L
Marine Water - Intermittent releases	500 µg/L
Sewage Treatment Plant	100 mg/L
Sediment (freshwater)	1.38 mg/kg
Sediment (marine water)	1.38 mg/kg
Soil	247 µg/kg
Secondary poisoning	1.67 mg/kg food

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Do not carry product impregnated cleaning cloths in trouser pockets.

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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- Respiratory protection:** Not necessary if room is well-ventilated.

- Hand protection**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

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**

Nitrile rubber, NBR

Neoprene gloves

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**

Break-through time: > 480 minutes

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

- Eye/face protection**



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- Body protection:**



Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

- Environmental exposure controls** Do not allow to enter drains, sewers or watercourses.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**

- General Information**

- Physical state**

Liquid

- Colour:**

Brown

- Odour:**

Mineral-oil-like

- Odour threshold:**

Not determined.

- Melting point/freezing point:**

-35 °C (Pour point)

- Boiling point or initial boiling point and boiling range**

Undetermined.

- Flammability**

Not applicable.

- Lower and upper explosion limit**

1 Vol %

- Lower:**

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<ul style="list-style-type: none"> · Upper: · Flash point: · Auto-ignition temperature: · Decomposition temperature: · pH · Viscosity: · Kinematic viscosity at 40 °C · Dynamic: · Solubility · water: · Partition coefficient n-octanol/water (log value) · Vapour pressure: · Density and/or relative density · Density at 20 °C: · Relative density · Vapour density 	<ul style="list-style-type: none"> 10 Vol % 175 °C > 250 °C Not determined. Not determined. 55.8 mm²/s Not determined. Not miscible or difficult to mix. Not determined. Not determined. 0.879 g/cm³ Not determined. Not determined.
<ul style="list-style-type: none"> · 9.2 Other information · Appearance: · Form: · Important information on protection of health and environment, and on safety. · Ignition temperature: · Explosive properties: 	<ul style="list-style-type: none"> Fluid Product is not self-igniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<ul style="list-style-type: none"> · Solvent content: · VOC (EC) · Change in condition · Evaporation rate 	<ul style="list-style-type: none"> 0.00 % Not determined.
<ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives · Flammable gases · Aerosols · Oxidising gases · Gases under pressure · Flammable liquids · Flammable solids · Self-reactive substances and mixtures · Pyrophoric liquids · Pyrophoric solids · Self-heating substances and mixtures · Substances and mixtures, which emit flammable gases in contact with water · Oxidising liquids · Oxidising solids · Organic peroxides · Corrosive to metals 	<ul style="list-style-type: none"> Not applicable

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· Desensitised explosives	Not applicable
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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Heat and static discharge.
- **10.5 Incompatible materials:**
Strong acids.
Strong bases.
Strong oxidising agents.
- **10.6 Hazardous decomposition products:**
Boron compounds
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Phosphorus oxides (e.g. P2O5)
Sulphur oxides (SOx)
Toxic metal oxide smoke

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

ATE (Acute Toxicity Estimates)

Oral	LD50	133,333 mg/kg (rat)
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CAS: 68037-01-4 Synthetic base oil

Oral	LD50	> 5,000 mg/kg (rat)
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Highly refined low-viscosity mineral oil**

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 20 mg/l (rat)

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Oral	LD50	2,000 mg/kg (rat)
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- **Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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- Carcinogenicity** Based on available data, the classification criteria are not met.
- Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure** Based on available data, the classification criteria are not met.
- Aspiration hazard** Based on available data, the classification criteria are not met.
- Subacute to chronic toxicity:** Prolonged or repeated skin contact may irritate and cause dermatitis.
- Additional toxicological information:** Repeated or prolonged skin contact may induce sensitisation.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients are listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

EC50 (96 h) 15 mg/l (Algae)

EC50 (3 h) 2,433 mg/L (microorganisms)

12.2 Persistence and degradability Not easily biodegradable

12.3 Bioaccumulative potential Contains components with the potential to bioaccumulate.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

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

Contact waste processors for recycling information.

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Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation. Delivery of waste oil to officially authorised collectors only.

· UK List of Waste	
13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19)
13 02 00	waste engine, gear and lubricating oils
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

Containers, even those that are "empty," may contain residues that can develop flammable vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR/RID/ADN, ADN, IMDG, IATA	Not applicable
· 14.2 UN proper shipping name	
· ADR/RID/ADN, ADN, IMDG, IATA	Not applicable
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN, ADN, IMDG, IATA	
· Class	Not applicable
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Not applicable

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**
None of the ingredients are listed.
- **Regulated poisons**
None of the ingredients are listed.
- **Reportable explosives precursors**
None of the ingredients are listed.
- **Reportable poisons**
None of the ingredients are listed.
- **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
- **Named dangerous substances - ANNEX I** None of the ingredients are listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Relevant phrases**
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
- **Department issuing SDS:** Product safety department.
- **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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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