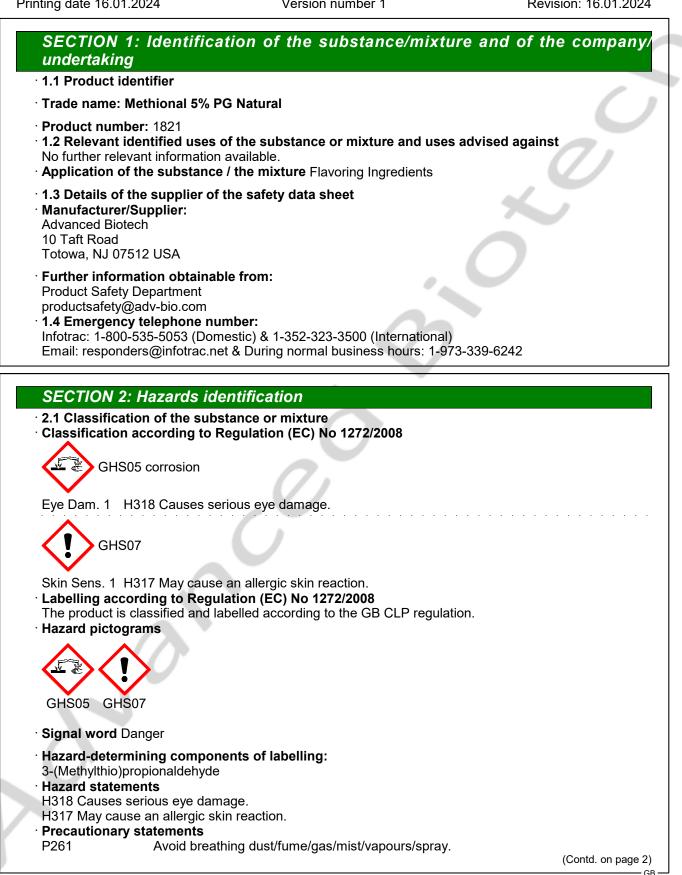


Printing date 16.01.2024

Safety data sheet according to 1907/2006/EC, Article 31

Version number 1

Revision: 16.01.2024





Version number 1

Revision: 16.01.2024

Trade name: Methional 5% PG Natural

	(Contd. of page 1)
P305+P351+P3	338 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.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.

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: Mixture of substances listed below with nonhazardous additions.

 Dangerous compor 	nents:	
CAS: 57-55-6 EINECS: 200-338-0	Propylene glycol substance with a Community workplace exposure limit	50-100%
CAS: 3268-49-3 EINECS: 221-882-5	 3-(Methylthio)propionaldehyde Acute Tox. 3, H311;	≥ 3- <10%
Additional informat	ion: 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 and be sure to call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- **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.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

Printing date 16.01.2024



Printing date 16.01.2024

Version number 1

Revision: 16.01.2024

Trade name: Methional 5% PG Natural

(Contd. of page 2)

- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- 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 Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.
- Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.
- 6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.

Please refer to the product specification and/or Certificate of Analysis for product storage requirements.

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- 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:

CAS: 57-55-6 Propylene glycol

- WEL Long-term value: 474* 10** mg/m³, 150* ppm
 - *total vapour and particulates **particulates

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

· 8.2 Exposure controls

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

(Contd. on page 4)



Printing date 16.01.2024

· Flammability

· Lower:

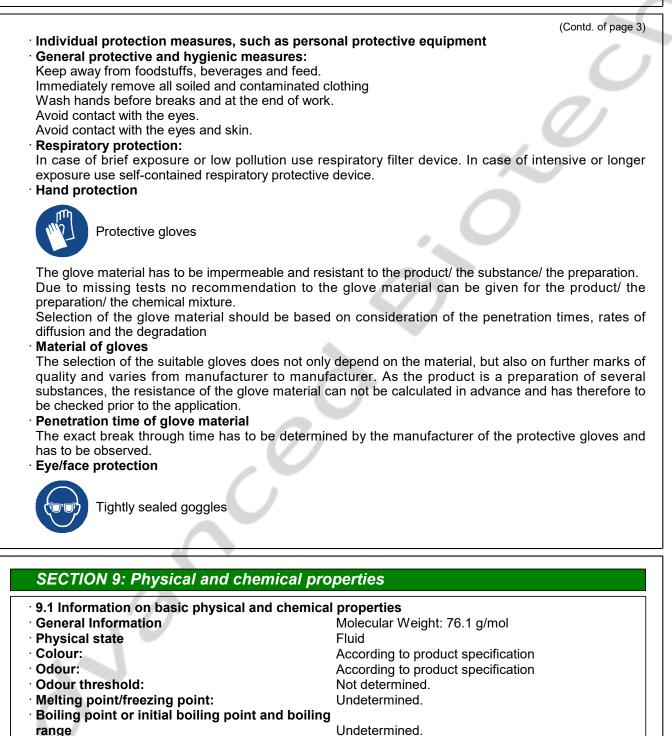
· Upper:

Lower and upper explosion limit

Version number 1

Revision: 16.01.2024

Trade name: Methional 5% PG Natural



2.6 Vol % (CAS: 57-55-6 Propylene glycol) 12.6 Vol % (CAS: 57-55-6 Propylene glycol)

Not applicable.

(Contd. on page 5)

GB



Printing date 16.01.2024

Version number 1

Revision: 16.01.2024

Trade name: Methional 5% PG Natural

Flash point:	94.8 °C
Auto-ignition temperature:	255 °C (CAS: 3268-49-3 3-(Methylthio)
	propionaldehyde)
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log va	
Vapour pressure at 20 °C:	0.1 hPa (CAS: 57-55-6 Propylene glycol)
Density and/or relative density	
Density at 20 °C:	1.04-1.05 g/cm³
Relative density	Not determined.
Refractive Index	
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of he	
and environment, and on safety.	ann
Ignition temperature:	Droduct is not colfigniting
	Product is not selfigniting.
Explosive properties: Solvent content:	Product does not present an explosion hazard.
Organic solvents:	95.0 %
VOC (EC)	0.00 %
Solids content:	0.0 %
Change in condition	Not date main a d
Evaporation rate	Not determined.
Information with regard to physical haz	zard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void

- _{GB} ____



Printing date 16.01.2024

Version number 1

Revision: 16.01.2024

(Contd. of page 5)

Trade name: Methional 5% PG Natural

Desensitised explosives

Void

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 according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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 15,000 mg/kg (ATE)

Dermal LD50 15,000 mg/kg (ATE)

Inhalative LC50/4 h 220 mg/l

CAS: 3268-49-3 3-(Methylthio)propionaldehyde

	•	3 /1 1	11
Oral	LD50	750 mg/kg (ATE)	
	LD50	750 mg/kg (ATE)	
Inhalative	LC50/4 h	11 mg/l (ATE)	h.

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- 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.
- · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

(Contd. on page 7)



Printing date 16.01.2024

Version number 1

Revision: 16.01.2024

Trade name: Methional 5% PG Natural

(Contd. of page 6)

- · 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 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informat	tion
 · 14.1 UN number or ID number · ADR, IMDG, IATA 	Void
 · 14.2 UN proper shipping name · ADR, IMDG, IATA 	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk according IMO instruments 	ng to Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

(Contd. on page 8)



Printing date 16.01.2024

Version number 1

Revision: 16.01.2024

Trade name: Methional 5% PG Natural

(Contd. of page 7)

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 is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

3-(Methylthio)propionaldehyde

· Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- 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.

- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

(Contd. on page 9)

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



Printing date 16.01.2024

Version number 1

Revision: 16.01.2024

Trade name: Methional 5% PG Natural

(Contd. of page 8)

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

	any specific product features and shall not establish a legally valid contractual relationship.
	Relevant phrases
	H302 Harmful if swallowed.
ŀ	H311 Toxic in contact with skin.
ŀ	H315 Causes skin irritation.
ŀ	H317 May cause an allergic skin reaction.
ŀ	H318 Causes serious eye damage.
ŀ	H332 Harmful if inhaled.
ŀ	H335 May cause respiratory irritation.
	H412 Harmful to aquatic life with long lasting effects.
	Department issuing SDS: Product safety department
	Contact:
	Product Safety Department
	productsafety@adv-bio.com
• [Date of previous version: 10.01.2023
•	Abbreviations and acronyms:
	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning
	nternational Carriage of Dangerous Goods by Road)
	MDG: International Maritime Code for Dangerous Goods
	ATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals
F	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)
	/OC: Volatile Organic Compounds (USA, EU)
	C50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic
	/PvB: very Persistent and very Bioaccumulative
	ATE: Acute toxicity estimate values
	Acute Tox. 4: Acute toxicity – Category 4
	Acute Tox. 3: Acute toxicity – Category 3
	Skin Irrit. 2: Skin corrosion/irritation – Category 2
	Eye Dam. 1: Serious eye damage/eye irritation – Category 1
	Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
7	Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3