

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 1/(11)

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

1.1 Product identifier:

Metabond HI-TECH 1,5 EP grease

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

Relevant identified uses: over-alkaline, high temperature, calcium-based lubricant.

Uses advised against: application other than the above.

1.3 Details of the supplier of the safety data sheet:

Data of supplier:

Metabond Magyarország Kft.
9030 Győr, Szigligeti Ede u. 5.
Tel: +36 96 332738
Mobile: +36 70 2719575
www.metabond.hu

Responsible for SDS:

Metabond Magyarország Kft.
9030 Győr, Szigligeti Ede u. 5.
Tel: +36 96 332738
Mobile: +36 70 2719575
E-mail: metabond@metabond.hu
www.metabond.hu

1.4 Emergency telephone number

Emergency telephone (on workdays: 08-16 h (CET)): +36 96 332738

Health Toxicological Information Service (ETT SZ 1097 Budapest, Albert Flórián st. 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).

+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Hazard Class and Category: Hazard statement:

Not classified.

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SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 2/(11)

2.2 Label elements

Product identification: Trade name: **Metabond HI-TECH 1,5 EP grease**

Hazardous components: -

GHS Pictogram: Not required.

Signal word: Not required.

Hazard statement:

Not required.

Supplemental hazard information:

-

Precautionary statements – General: -

Precautionary statements – Prevention:

P273 Avoid release to the environment.

Precautionary statements – Response: -

Precautionary statements – Storage: -

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

2.3 Other hazards

No data.

SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixture of base oils containing additives.

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 3/(11)

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
SVHC candidate list: Tetradecane, chloro derivs. REACH Registr. Nr.: no data	-	198840-65-2	-	-	70 - 90
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts REACH Registr. Nr.: no data	271-529-4	68584-23-6	-	-	1-5

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SECTION 4 First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use soap. In case of persistent irritation, get medical attention.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 5-10 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of a complaint, seek medical advice.

Ingestion: If swallowed, rinse the mouth with water and give the injured person a lot of water. **Do not** induce vomiting. Get medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

Other symptoms: redness, tearing.

May cause respiratory irritation. Other symptoms: cough, dyspnoea.

Ingestion: nausea, vomiting, diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Not required. Treat symptomatically.

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 4/(11)

SECTION 5 Fire-fighting measures

Fire hazards:

Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

Alcohol-resistant foam, carbon dioxide, dry chemical powder, water spray.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, various hydrocarbons and soot can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

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

Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Keep unnecessary personnel away.

Stop leak if you can do so without risk.

Danger of slipping on leaked out/spilled product.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil

Notify relevant authority.

6.3 Methods and material for containment and cleaning up

On soil: All kind of ignition sources should be removed. Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid by pumping.

Dispose of according to local regulations.

On water: Confine the spillage.

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 5/(11)

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with lubricants.

Keep away from radiant heat and open flame.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

Wash hands before breaks and at end of work.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: not known.

7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.

Store in dry, well-ventilated place in original, closed containers.

Keep away from radiant heat, open flame and strong oxidizing agents and strong acids.

Storage temperature: no data.

7.3 Specific end use(s)

Alkaline, high temperature, calcium-based lubricant.

SECTION 8 Exposure controls / personal protection

8.1 Control parameters: -

8.2 Exposure controls

Engineering control measures:

Not required.

Personal protection:

(a) Eye/face protection Protective goggles, if splashes may occur (EN 166).

(b) Skin protection

(i) Hand protection Protective gloves (EN 374).

Note: Manufacturer's directions for use and the conditions of application should be observed.

(ii) Other Protective clothing (oil resistant).

(c) Respiratory protection Not required.

(d) Thermal hazards No data.

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 6/(11)

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state:	liquid, paste
b) Colour:	blue
c) Odour:	petroleum
d) Melting point/freezing point (Pour point):	not available
e) Boiling point or initial boiling point and boiling range:	370-595°C
f) Flammability:	combustible
g) Lower and upper explosion limit:	not explosive
h) Flash point:	160°C
i) Auto-ignition temperature:	>315°C
j) Decomposition temperature:	not available
k) pH:	not applicable
l) Kinematic viscosity	
at 40°C:	not available
at 100°C:	not available
m) Solubility	
Solubility in water:	practically insoluble in water
Solubility in other solvents:	not available
n) Partition coefficient n-octanol/water (log value):	not available
o) Vapour pressure at 20°C:	<5 Hgmm
p) Density and/or relative density:	1.20503 – 1.26103 g/cm ³
q) Relative vapour density:	not available
r) Particle characteristics:	not available

9.2 Other information

Viscosity: 41.27 cSt

SECTION 10 Stability and reactivity

10.1 Reactivity:	Dangerous reactivity not known.
10.2 Chemical stability:	No decomposition if stored and handled properly.
10.3 Possibility of hazardous reactions:	Not known.
10.4 Conditions to avoid:	Direct heat or ignition sources.

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 7/(11)

- 10.5 Incompatible materials: Strong oxidizing agents, strong acids.
10.6 Hazardous decomposition products: No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

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.

ATE	Oral:	≥28 429 mg/kg
ATE	Dermal:	≥12 242 mg/kg

Components:

Tetradecane, chloro derivs.

Oral	LD50 (rat)	15 000 mg/kg
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- | | |
|------------------------------------|---|
| 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. |
| 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

No data.

SECTION 12 Ecological information

12.1 Toxicity

No data for the product.

Components:

Tetradecane, chloro derivs.

Fish	LC50	>0.1 mg/L (96 h)
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12.2 Persistence and degradability

Biodegradability: No data available.

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 8/(11)

12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
	Mobility in water:	No data available.
12.5	Results of PBT and vPvB assessment	No data available.
12.6	Endocrine disrupting properties	No data available.
12.7	Other adverse effects	
	Heavy metal content:	None.
	PCT, PCB and other chlorinated hydrocarbons:	None.
	Environmental effects:	Large spills may be hazardous to the environment.
	Water hazard class (German):	No data available.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 12 01 12*

Spent waxes and fats.

Recommended waste treatment method: incineration

Disposal must be in compliance with national and local regulations.

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 9/(11)

SECTION 14 Transport information

Land transport:

Road/ Railway

ADR/RID:

Not classified.

14.1. UN number or ID number:

Not classified.

14.2. UN proper shipping name:

Not classified.

14.3. Transport hazard class(es):

Not classified.

14.4. Packing group:

Not classified.

14.5. Environmental hazards:

Not classified.

14.6. Special precautions for user:

Not classified.

Waterways:

Inland waterways/ Sea transport ADN/IMDG:

Not apply to the product.

Air transport: ICAO / IATA:

Not apply to the product.

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.
Seveso category: not classified.

15.2 Chemical safety assessment.
not available

SECTION 16 Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 10/(11)

Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP)
Not classified.

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

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Legend:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ex	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Edx	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LCx	Lethal Concentration x%
LDx	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **Metabond HI-TECH 1,5 EP grease**

Version: 4 Latest revision: 15. 12. 2022 Previous version: 13. 07. 2018 Page: 11/(11)

NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts/million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative

Revision Indicators:

Section	Subject of change	Date	Version
1-16	Revision modification according to 2020/878/EU Full revision due to composition change	15. 12. 2022	4