



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Eni metalGrind S 5 HM

Material number 693

Revision date: 10.2.2023

Version: 7.1

Replaces version: 7.0

Language: en-DE

Date of print: 21.2.2023

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

1.1 Product identifier

Trade name: Eni metalGrind S 5 HM

UFI: HU50-K0RK-G00H-TTS9

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

General use: Lubricants, greases, release products.

1.3 Details of the supplier of the safety data sheet

Company name: Eni Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: DE-97080 Würzburg

WWW: www.enischmiertechnik.de

E-mail: info.wuerzburg@eni.com

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Department responsible for information:

Application Engineering & Product Management (AEPM)

Telephone: +49 (0)931-90098-0

E-mail: technik.wuerzburg@eni.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen

Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Sens. 1; H317 May cause an allergic skin reaction.

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word: **Danger**

Hazard statements: H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.



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Precautionary statements:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P261	Avoid breathing mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection.
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	P331	Do NOT induce vomiting.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P405	Store locked up.
	P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Distillates (petroleum), hydrotreated light paraffinic
1-Decene dimers, hydrogenated
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics
Polysulfides, di-tert-dodecyl

2.3 Other hazards

May be harmful if inhaled.
Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

CAS No.	Designation	PBT/vPvB	ED Human	ED Environment
128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene		List II	

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: A mixture of base oils and additives.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119487077-29-xxxx EC No. 265-158-7 CAS 64742-55-8	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1; H304.	50 - 75 %
REACH 01-2119537268-28-xxxx EC No. 500-228-5 CAS 68649-11-6	1-Decene dimers, hydrogenated Acute Tox. 4; H332. Asp. Tox. 1; H304.	10 - 25 %
REACH 01-2119827000-58-xxxx list no. 934-956-3 CAS -	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics Asp. Tox. 1; H304.	10 - 25 %
REACH 01-2119540516-41-xxxx EC No. 270-335-7 CAS 68425-15-0	Polysulfides, di-tert-dodecyl Skin Sens. 1B; H317.	1 - 5 %
REACH 01-2119555270-46-xxxx EC No. 204-881-4 CAS 128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene Aquatic Acute 1; H400. Aquatic Chronic 1; H410.	< 1 %

Full text of H- and EUH-statements: see section 16.

Additional information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.



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SECTION 4: First aid measures

4.1 Description of first aid measures

- General information: In all cases of doubt, or when symptoms persist, seek medical advice. If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
- In case of inhalation: Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.
- Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
- After swallowing: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention. Observe risk of aspiration if vomiting occurs.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May be harmful if inhaled.
The following symptoms may occur: respiratory complaints, headache, discomfort, dizziness.
Symptoms can occur only after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: extinguishing powder, foam and Carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Water

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. Cool endangered containers with water jetspray. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment. Provide adequate ventilation. Avoid breathing mist/vapours/spray. Avoid contact with skin, eyes and clothes.
Keep unprotected people away.
Stop leak if safe to do so. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
If necessary notify appropriate authorities.



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6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Ventilate affected area. Clean contaminated objects and areas thoroughly observing environmental regulations.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Put lids on containers immediately after use. Wear appropriate protective equipment. Avoid breathing mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. Use only antistatically equipped (spark-free) tools.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place. Keep only in the original container. Protect from frost, heat and sunlight.

Protect from moisture contamination. storage temperature: 5 - 40 °C

Do not store at temperatures below 0 °C.

Storage stability: Average shelf life of 24 months.

Hints on joint storage:

Do not store together with oxidizing agents or Acids. Keep away from food, drink and animal feedingstuffs.

Storage class:

10 = Combustible liquids, unless storage class 3

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
68649-11-6	1-Decene dimers, hydrogenated	Germany: TRGS 900 Kurzzeit	20 mg/m ³ (respirable fraction)
		Germany: TRGS 900 Langzeit	5 mg/m ³ (respirable fraction)
68425-15-0	Polysulfides, di-tert-dodecyl	Germany: TRGS 900 Kurzzeit	20 mg/m ³ (respirable fraction)
		Germany: TRGS 900 Langzeit	5 mg/m ³ (respirable fraction)
128-37-0	3,5-Di-tert-butyl-4-hydroxytoluene	Germany: TRGS 900 Kurzzeit	40 mg/m ³ (Aerosol and vapour, inhalable fraction)
		Germany: TRGS 900 Langzeit	10 mg/m ³ (Aerosol and vapour, inhalable fraction)



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DNEL/DMEL:	Information about 1-Decene dimers, hydrogenated: DNEL workers, inhalative, short-term, systemic: 60 mg/m ³ Information about Polysulfides, di-tert-dodecyl: DNEL workers, inhalative, long-term, systemic: 32,9 mg/m ³ DNEL workers, dermal, long-term, systemic: 46,7 mg/kg bw/d Information about 3,5-Di-tert-butyl-4-hydroxytoluene: DNEL workers, inhalative, long-term, systemic: 1,76 mg/m ³ DNEL workers, dermal, long-term, systemic: 0,5 mg/kg bw/d
PNEC:	Information about Polysulfides, di-tert-dodecyl: PNEC sewage treatment plant, short-term: 1 g/L Information about 2,6-di-tert-Butyl-p-cresol: PNEC water (freshwater), short-term: 0,199 µg/L PNEC water (marine water), short-term: 0,02 µg/L PNEC sediment (freshwater), short-term: 0,458 mg/kg dw PNEC sediment (marine water), short-term: 0,046 mg/kg dw PNEC soil, short-term: 0,054 mg/kg dw PNEC sewage treatment plant, short-term: 0,017 mg/L

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection:	Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A/P3 according to EN 14387. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.
Hand protection:	Protective gloves according to EN 374. Glove material: NBR nitrile rubber. Breakthrough time: 240 min Layer thickness: 0,12 mm Unsuitable materials: CR (polychloroprene, chloroprene rubber), NR (natural rubber (Caoutchouc)), butyl caoutchouc (butyl rubber) Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to EN 166
Body protection:	Wear suitable protective clothing.
General protection and hygiene measures:	Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	yellow
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available



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Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	165 °C
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	at 40 °C: 7,5 mm ² /s
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	at 20 °C: 0,83 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Protect from frost, heat and sunlight. Protect from moisture contamination.

10.5 Incompatible materials

Oxidizing agents, Acids.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
May be harmful if inhaled.

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.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties: This product contains a substance that has endocrine disrupting properties with respect to humans.

Other information: Information about 1-Decene dimers, hydrogenated:
LD50 Rat, oral: > 5000 mg/kg
LD50 Rat, dermal: > 2000 mg/kg
LC50 Rat, inhalative: >4800 mg/m³/4h

Symptoms

The following symptoms may occur: respiratory complaints, headache, discomfort, dizziness.
Symptoms can occur only after several hours.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Information about 1-Decene dimers, hydrogenated:

Fish toxicity:
LL50: > 100 mg/L/96h

Daphnia toxicity:
EL50: > 1.000 mg/L/48h

Algae toxicity:
NOEL: 125 mg/L/21h

Information about 2,6-di-tert-Butyl-p-cresol:

Fish toxicity:
LC50: > 0,199 mg/L/96h

Daphnia toxicity:
LC50: > 0,84 mg/L/48h (OECD 202)

Algae toxicity:
Desmodesmus subspicatus (green algae): EC50: 0,758 mg/L/96h



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Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

12.2 Persistence and degradability

Further details: Part of the components is biodegradable.
Information about 1-Decene dimers, hydrogenated:
oxygen consumption: 9 %/5 d
formation of carbon dioxide: 54,3 %/28 d
Information about Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics:
oxygen consumption 74 %/28 d
Information about Polysulfides, di-tert-dodecyl:
oxygen consumption 0 %/28 d

Effects in sewage plants: Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

None

12.7 Other adverse effects

General information: Damage can be caused through mechanical influence of the product (eg. sticking).
Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 13 02 08* = other engine, gear and lubricating oils
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: not applicable
ADN: ID 9006

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted
ADN: ID 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

ADN: Class 9, Code: M12

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

14.6 Special precautions for user

Inland waterway craft (ADN)

Hazard label: -
Transport permitted: T
Equipment necessary: PP

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5.

Information on working limitations:

Observe employment restrictions for young people.

Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

National regulations - EC member states

Volatile organic compounds (VOC):

< 3 % by weight

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3,75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H304 = May be fatal if swallowed and enters airways.

H317 = May cause an allergic skin reaction.

H332 = Harmful if inhaled.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.

Reason of change: General revision

Date of first version: 8.6.2022



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Department issuing data sheet: see section 1: Department responsible for information

Abbreviations and acronyms:

- Acute Tox.: Acute toxicity
- 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
- Aquatic Acute: Hazardous to the aquatic environment - acute
- Aquatic Chronic: Hazardous to the aquatic environment - chronic
- AS/NZS: Australian Standards/New Zealand Standards
- Asp. Tox.: Aspiration toxicity
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC: European Community
- EC50: Effective Concentration 50%
- EL50: Effective loading rate 50%
- EN: European Standard
- EQ: Excepted quantities
- EU: European Union
- IATA: International Air Transport Association
- IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
- IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IMDG Code: International Maritime Dangerous Goods Code
- LC50: Median lethal concentration
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- NOEL: No Observed Effect Level
- OECD: Organisation for Economic Co-operation and Development
- OEL: Occupational Exposure Limit Value
- OSHA: Occupational Safety and Health Administration
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no-effect concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- Skin Sens.: Skin sensitisation
- TLV: Threshold Limit Value
- TRGS: Technical Rules for Hazardous Substances
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at
<http://sumdat.net/6b77zuc>

