Section 1. Identification of substance/mixture and of the company/undertaking.

1.1 Product identifier:

Product name:	eni metalGrind S 5 HM

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

Identified uses:	Lubricant
Uses advised against:	No uses advised against identified.

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:	Eni Schmiertechnik GmbH Paradiesstr. 14, D-97080 Würzburg Tel. (+ 49) 931 - 900 98-0 Fax (+ 49) 931-98442
Advising/Support:	Technical Department, Tel. (+49) 931 900 98-142 technik.wuerzburg@agip.de www.enischmiertechnik-datenblaetter.de

Section 2. Hazards identification.

2.1 Classification of the substance or mixture:	The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No. 1272/2008 as amended:

Health hazards:	
Aspiration hazard:	Category 1 – H304 – May be fatal if swallowed and enters airways
Hazard summary:	
Physical hazards:	No data available.
Health hazards:	
Ingestion:	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.
Other health effects:	No data available.
Environmental hazards:	No data available.
2.2 Label elements:	
Contains:	Base oil, low viscous

Signal word:	Danger
Hazard statement(s):	H304 – May be fatal if swallowed and enters airways
Precautionary statement:	
Response:	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P331: Do NOT induce vomiting
Storage:	P405: Store locked up
Disposal:	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal
2.3 Other hazards:	By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

Section 3. Composition/information on ingredients.

3.1 Substances:

General information:	
Chemical name:	Base oil, low viscous

Index-no.:	649-221-00-X
Identifier:	265-148-2
REACH Registration No.:	01-2119827000-58

Section 4. First aid measures.

General information:	Instantly remove any clothing soiled by the product.
4.1 Description of first aid measures:	
Inhalation:	Supply fresh air; consult doctor in case of symptoms.
Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids.
Skin contact:	Wash with water and soap.
Ingestion:	Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting.
4.2 Most important symptoms and effects, both acute and delayed:	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.
4.3 Indication of any immediate medical attention and special treatment needed:	Get medical attention if symptoms occur.

Section 5. Fire fighting measures.

5.1 Extinguishing media:	
Suitable extinguishing agents:	CO2, extinguishing powder or fog like water spraying. Fight larger fires with alcohol resistant foam or spray water with suitable tensides added.
Unsuitable extinguishing agents:	Water with a full water jet.
5.2 Special hazards arising from the substance or mixture:	During fire, gases hazardous to health may be formed.
5.3 Advice for fire-fighters:	
Special fire fighting procedures:	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
Special protective equipment for fire fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures:	In case of spills, beware of slippery floors and surfaces.
6.2 Environmental precautions:	Prevent from spreading (e. g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.
6.3 Measures and material for containment and cleaning up:	Absorb with liquid binding material (sand, diatomite, acid binders, universal binders or sawdust). Dispose of material collected according to regulations. Stop the flow of material, if this is without risk.
6.4 Reference to other sections:	See section 8 of the SDS for Personal Protective Equipment. See section 7 for information on safe handling. See section 13 for information on disposal.

Section 7. Handling and Storage.

7.1 Precautions for safe handling:	Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.
7.2 Conditions for safe storage, including any incompatibilities:	Store locked up. Local regulation concerning handling and storage of water polluting products have to be followed. Do not heat up to temperatures close to the Flashpoint.

7.3 Specific end use(s):	Not applicable
Storage class:	10, combustible liquids

Section 8. Exposure controls/personal protection.

8.1 Control parameters:

Occupational exposure limits:	None of the components have assigned exposure limits.

8.2 Exposure controls:

Appropriate engineering controls:	Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment:

General information:	Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.
Eye/face protection:	Safety glasses (EN 166) recommended during refilling.
Skin protection:	
Hand protection:	Nitrile butyl rubber (NBR). Min. Breakthrough time: >= 480 min. Recommended thickness of the material: >= 0,38 mm Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in accordance to safety directions. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
Respiratory protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/aerosols.
Thermal hazards:	Not known
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental controls:	No data available.

Section 9. Physical and chemical properties.

9.1 Information on basic physical and chemical properties:

Appearance:	
Physical state:	Liquid
Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Value not relevant for classification
pH:	Not applicable
Freezing point:	-20°C
Boiling point:	275 – 325°C
Flashpoint:	134°C
Evaporation rate:	Value not relevant for classification
Flammability (solid, gas):	Value not relevant for classification
Flammability limit – upper (%)-:	6,0%(V)
Flammability limit – lower (%)-:	1,0%(V)
Vapour pressure:	< 0,001 hPa (20°C)

Vapour density (air=1):	Value not relevant for classification
Density at 15°C:	0,81 g/cm³
Solubility(ies):	
Solubility in water:	Insoluble in water
Solubility (other):	No data available
Partition coefficient (n-octanol/water):	Value not relevant for classification
Auto ignition temperature:	Value not relevant for classification
Decomposition temperature:	Value not relevant for classification
Kin. Viscosity at 40°C:	4,1 mm²/s
Explosive properties:	Value not relevant for classification
Oxidising properties:	Value not relevant for classification
9.2 Other information:	
Minimum ignition temperature:	> 230°C

Section 10. Stability and reactivity.

10.1 Reactivity:	Stable under normal use of conditions.
10.2 Chemical stability:	Stable under normal use of conditions.
10.3 Possibility of hazardous reactions:	Stable under normal use of conditions.
10.4 Conditions to avoid:	Stable under normal use of conditions.
10.5 Incompatible materials:	Strong oxidizing substances, strong acids, strong bases.
10.6 Hazardous decomposition products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11. Toxicological information.

11.1 Information on toxicological effects:

Acute toxicity:

Oral:

Base oil, low viscous:	LD 50 (Rat): > 5.000 mg/kg (OECD 401)

Dermal:

Base oil, low viscous:	LD 50 (Rabbit): > 3.160 mg/kg (OECD 402)

Inhalation:

Base oil, low viscous:	LC 50 (Rat, 4 h): > 5.266 mg/l (OECD 403) Dusts, mists and fumes
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitisation:	No data available
Germ cell mutagenicity:	
In vitro:	No data available
In vivo:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity – single exposure:	No data available
Specific target organ toxicity – repeated exposure:	No data available
Aspiration hazard:	No data available
Other adverse effects:	No data available

Section 12. Ecological information.

12.1 Toxicity:

Acute toxicity:

Fish:

Base oil, low viscous:	LC 50 (Fish, 96 h): > 1.028 mg/l (OECD 203)

Aquatic invertebrates:

Base oil, low viscous:	No data available

Chronic toxicity:

Fish:	No data available
Aquatic invertebrates:	No data available

Toxicity to aquatic plants:

Base oil, low viscous:	EC 50 (Alga, 72 h): > 10.000 mg/l

12.2 Persistence and degradability:

Biodegradation:

Base oil, low viscous:	74% (28 d, OECD 306) Readily biodegradable
12.3 Bioaccumulative potential:	No data available
12.4 Mobility in soil:	No data available

12.5 Results of PBT and vPvB assessment:

Base oil, low viscous:	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria.
12.6 Other adverse effects:	No data available
Water hazard class:	WGK 1: slightly water-endangering

Section 13. Disposal considerations.

13.1 Waste treatment methods:

General information:	Dispose in accordance with all applicable regulations.
Disposal methods:	Discharge, treatment or disposal may be subject to national, state or local laws.
European Waste Codes:	13 02 05*: mineral-based non-chlorinated engine, gear and lubricating oils

Section 14. Transport information.

ADR/RID:	Non-dangerous goods
ADN:	Non-dangerous goods
IMDG:	Non-dangerous goods
IATA:	Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code:	Not applicable

Section 15. Regulatory information.

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

National regulations:

Water hazard class:	WGK 1: slightly water-endangering
15.2 Chemical safety assessments:	No chemical safety assessment has been carried out.

Section 16. Other information.

This information relates only to the specific product and may not be valid if the product is used in combination with any other material or in any process.
The informations in this sheet are according to our best knowledge at the date of printing.

Wording of the H-statements in section 2 and 3:
H304 May be fatal if swallowed and enters airways

Changes: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16