Safety Data Sheet in Accordance with regulation 2015/830

Date of issue: 17.04.2020 Replaces Data Sheet of: 17.07.2019
"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

1.1 **Product identifier**

Trade Name:	MATHY®-G Hochleistung-Schmierfett Typ L
Article No.:	1300
Preparation No.:	n.av.
Registration No.:	n.ap.

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
Identified uses: lubricant assistants

1.3 **Details of the supplier of the safety data sheet**

1.3.1 **Address of the Company / Supplier:**
MVG® Mathé-Schmierstofftechnik GmbH, Spiekerhof 15, 29614 Soltau, Germany
Telephone: +49 - 5191-16004, Telefax: +49 – 5191-18155, E-Mail: info@mathy.de

1.3.2 **Responsible for the data sheet:**
CoSiChem AG, Ernst-Lemmer-Straße 23, 35041 Marburg, info@cosichem.de

1.4 **Emergency telephone number**
Emergency - Telephone of Company / Undertaking
Telephone: +49 - 5191-16004 (8:00 – 16:30)

National Poisons Information Service
Telephone: +44 121 507 4123

SECTION 2: Hazards identification

2.1 **Classification of the substance or mixture**
Skin Sens. 1; H317 / Eye Irrit. 2; H319 / Aquatic Chronic 3; H412

2.2 **Label elements**
Classification according to 1272/2008/EC: Yes.
Applicable Exemptions: Yes.
Signal word(s): Warning
Hazard pictogram(s):
Component(s): contains:
Polysulfides, Di-tert-butyl-
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
Molybdenum Trioxide, Reaction products with bis[O,O-bis(2-ethylhexyl] Hydrogen Dithiophosphate
Diisodecyl phenyl phosphite
Triisodecyl phosphite
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.

H - Phrases:
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

P - Phrases:
P102: Keep out of reach of children.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352: IF ON SKIN: Wash with plenty of water.
P308+P313: IF exposed or concerned:Get medical advice/attention.
P501: Dispose of contents/container to special waste collection point.

Additional Markings:

2.3 **Other hazards**
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
This mixture contains no substances which are assessed to be PBT or vPvB.

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SECTION 3: Composition/information on ingredients

3.1 **Substances**

n.ap.

3.2 **Mixtures**

Chemical Characterisation:

Mixture mineral oil based

Dangerous Ingredients:

Material CAS - No. Index - No. EC - No. REACH - No. Hazard Code(s) / H - phrases	**m% - range**
Polysulfides, Di-tert-butyl- 68937-96-2 n.ap. 273-103-3 01-2119540515-43-xxxx Skin Irrit. 2; H315 / Skin Sens. 1; H317 / Aquatic Chronic 3;H412	**1 - 3%**
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) n.av. n.av. 931-384-6 n.av. Eye Dam. 1; H318 / Acute Tox. 4; H302 / Skin Sens. 1; H317 / Aquatic Chronic 2; H411	**1 - 3%**
Molybdenum Trioxide, Reaction products with bis[O,O-bis(2-ethylhexyl] Hydrogen Dithiophosphate n.av. n.ap. 947-946-9 01-2120772600-59-xxxx Skin Irrit. 2; H315 / Skjin Sens. 1; H317 / Aquatic Chronic 4; H413	**0.1 - 1%**
Diisodecyl phenyl phosphite 25550-98-5 n.av. 247-098-3 n.av. Skin Irrit. 2; H315 / Eye Irrit. 2; H319 / STOT SE 3; H335 / Skin Sens. 1; H317 / Aquatic Acute 1; H400 / Aquatic Chronic 1; H410	**0.1 - 1%**
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs. n.av. n.ap. 939-460-0 01-2119971727-23-xxxx Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1; H317 / Eye Dam. 1; H318 / Aquatic Chronic 3; H412	**0.1 - 1%**
Triisodecyl phosphite 25448-25-3 n.av. 246-998-3 n.av. Skin Sens. 1; H317	**0.1 - 1%**
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines 1213789-63-9 n.ap. 627-034-4 01-2119473797-19-xxxx Acute Tox. 4; H302 / Asp Tox. 1; H304 / STOT SE 3; H335 / STOT RE 2; H373 (gastro-intestinal tract, liver, immune system) / Skin Corr. 1; H314 / Aquatic Acute 1; H400; M=10 / Aquatic Chronic 1; H410; M=10	**0.1 - 0.25%**

Text of H - phrases: see section 16

m% - range: x – y ≙ x ≥ – < y

SECTION 4: First aid measures

4.1 **Description of first aid measures**

4.1.1 **Inhalation:**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

4.1.2 **Skin Contact:**

Wash off with warm water and soap.

In the case of skin irritation or allergic reactions see a physician.

4.1.3 **Eye Contact:**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

4.1.4 **Ingestion:**

Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water.

Consult a physician. Show this safety data sheet to the doctor in attendance.

4.2 **Most important symptoms and effects, both acute and delayed**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Causes serious eye irritation. May cause an allergic skin reaction.

4.3 **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 **Extinguishing media**

5.1.1 **Suitable Extinguishing Media:**
Use dry chemical, CO_2, water spray or "alcohol" foam.

5.1.2 **Extinguishing Media to Avoid:**
High volume water jet.

5.2 **Special hazards arising from the substance or mixture**
In the event of fire the following can be released:
Carbon oxides, hazardous decomposition products due to incomplete combustion.

5.3 **Advice for firefighters**

5.3.1 **Special Protective Equipment:**
Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 **Additional Information:**
In the event of fire, cool tanks with water spray. 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**
See chapter 8.2.2
Contaminated surfaces will be extremely slippery.

6.2 **Environmental precautions**
Do not flush into surface water or sanitary sewer system.
Do not allow material to contaminate ground water system.
Local authorities should be advised if significant spillages cannot be contained.

6.3 **Methods and material for containment and cleaning up**
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Soak up with oil absorbent material. Shovel into suitable container for disposal.

6.4 **Reference to other sections**
None.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

7.1.1 **Precautions for Safe Handling:**
Avoid contact with skin and eyes.
Remove and wash contaminated clothing before re-use.
When using, do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Do not breathe vapours or spray mist.

7.1.2 **Precautions in Case of Fire and Explosion:**
Normal measures for preventive fire protection.
Keep away from sources of ignition - No smoking.

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

7.2.1 **Storage Instructions:**
Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in original container. Keep away from heat. Keep away from direct sunlight.

7.2.2 **Store away from:**
Do not store together with oxidizing agents.

7.2.3 **Further Information on Storage Conditions:**
Avoid subsoil penetration.

7.3 **Specific end use(s)**
n.av.

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SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

Material	Limit Value

8.2 **Exposure controls**

8.2.1 **Appropriate engineering controls**
Provide appropriate exhaust ventilation at machinery.

8.2.2 **Individual protection measures**

8.2.2a **Respiratory Protection:** Breathing apparatus needed only when aerosol or mist is formed.
Respirator with filter A2, A2P2, ABEK.

8.2.2b **Hand Protection:** Use protective skin cream before handling the product.
Protective gloves complying with EN 374.
Nitrile rubber (0,45 mm) break through time > 8 h
The data about break through time/strength of material are standard values!
The exact break through time/strength of material has to be obtained from the producer of the protective glove.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

8.2.2c **Eye Protection:** Safety glasses with side-shields conforming to EN166

8.2.2d **Skin Protection:** Long sleeved clothing

8.2.2e **Further Information:** Observe wearing time limits:

8.2.3 **Environmental exposure controls:**
Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 **Information on basic physical and chemical properties**

9.1.1 **Form:** paste **Colour:** red **Odour:** like mineral oil characteristic

Odour threshold: n.av.

9.1.2	pH-value, undiluted:	n.ap.
	pH-value, 1% aqueous solution:	n.ap.
9.1.3	Boiling point / Boiling - range (°C):	> 200, Melting point / Melting range (°C): n.ap.
9.1.4	Flash point (°C):	> 190, closed cup
9.1.5	Flammability (EEC A10/A13):	n.av.
9.1.6	Ignition temperature (°C):	> 200
9.1.7	Autoflammability (EEC A16):	None.
9.1.8	Oxidising properties:	None.
9.1.9	Explosion hazard:	None.
9.1.10	Explosion limits (Vol.%) lower:	n.av., upper: n.av.
9.1.11	Vapour pressure:	n.av.
	Vapour density (Air = 1):	n.av.
9.1.12	Density (g/ml):	0,9
9.1.13	Solubility (in Water):	immiscible
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.
9.1.15	Viscosity:	n.av.
9.1.16	Solvent content (m %):	n.ap.
9.1.17	Thermal decomposition (°C):	n.av.
9.1.18	Evaporation rate:	n.av.

9.2 **Other information**
n.av.

SECTION 10: Stability and reactivity

10.1 **Reactivity**
No information available.

10.2 **Chemical stability**
Stable under normal conditions.

10.3 **Possibility of hazardous reactions**
No dangerous reaction known under conditions of normal use.

10.4 **Conditions to avoid**
Heat, flames and sparks. Keep away from naked flames, hot surfaces and sources of ignition.

10.5 **Incompatible materials**
Incompatible with oxidizing agents.

10.6 **Hazardous decomposition products**
No decomposition if stored and applied as directed.
To avoid thermal decomposition, do not overheat.

SECTION 11: Toxicological information

11.1 **Information on toxicological effects**
Acute Health Effects:

Inhalation:	n.av.
Ingestion:	n.av.
Skin Contact:	n.av.
Skin corrosion / irritation:	Slight
Serious eye damage / irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	n.av.
Carcinogenicity:	n.av.
Reproductive toxicity:	n.av.
STOT-single exposure:	n.av.
STOT-repeated exposure:	n.av.
Aspiration hazard:	n.av.

11.1.1 – **Practical Experience**
11.1.11 n.av.
11.1.12 Practical Experience
Observations relevant for classification:
None.
Further Observations:
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information

12.1 **Toxicity**
We have no quantitative data concerning the ecological effects of this product.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:
Acute fish toxicity (zebra fish): LC_{50}/ 96h: 0,84 mg / l
Toxicity to daphnia (Daphnia magna): EC_{50}/ 48 h: 0,32 mg / l

12.2 **Persistence and degradability**
No data is available on the product itself.

12.3 **Bioaccumulative potential**
n.av.

12.4 **Mobility in soil**
n.av.

12.5 **Results of PBT and vPvB assessment**
This mixture contains no substances which are assessed to be PBT or vPvB.

12.6	**Other adverse effects**	
12.6.1	COD-Value, mg/g:	n.av.
12.6.2	BOD5-Value, mg/g:	n.av.
12.6.3	AOX-Remarks:	Not applicable.
12.6.4	Significant Components:	Hydrocarbons (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines
12.6.5	Other adverse effects:	Not applicable.

SECTION 13: Disposal considerations

13.1 **Waste treatment methods**

13.1.1 Recommendation:

Waste - Code - No.: 12 01 12
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

13.2 **Contaminated Packaging**

13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

13.2.2 Safe Handling: As described under Residues.

SECTION 14: Transport information

Not a dangerous substance as defined in the above regulations.

		ADR	IMDG	IATA
14.1	UN number			
14.2	**UN proper shipping name**			
14.3	**Transport hazard class(es)**			
14.4	**Packing group**			
14.5	**Environmental hazards**			
14.6	**Special precautions for user**			
		Transport category: Classification Code: Hazard - No.: LQ:		Packing Instructions (Passenger) Packing Instructions (Cargo)
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**			

SECTION 15: Regulatory information

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

n.av.

15.2 **Chemical safety assessment :**

n.ap.

SECTION 16: Other information

Text of H phrases mentioned in Section 3
H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.
H413: May cause long lasting harmful effects to aquatic life.

This datasheet has been compiled in accordance with EU regulation 2015/830.
The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.
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