

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

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

1.1 Product identifier

Trade name : Metallschutz-Lack Dunkelgrün matt

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

Use of the Sub-
stance/Mixture : Solvent-borne coatings

Recommended restrictions
on use : within adequate application - none

1.3 Details of the supplier of the safety data sheet

Company : Alpina Farben GmbH
Roßdörfer Straße 50
64372 OBER RAMSTADT

Telephone : +498001238887
Telefax : +4961547170632

E-mail address Respon-
sible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone

Emergency telephone 1 : +49613284463 GBK GmbH

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapor.

Specific target organ toxicity - single ex-
posure, Category 3, Central nervous
system H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard, Cat-
egory 3 H412: Harmful to aquatic life with long lasting ef-
fects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Hazard pictograms

:



Signal Word

:

Warning

Hazard Statements

:

H226 Flammable liquid and vapor.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements

:

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P405 Store locked up.

Hazardous ingredients which must be listed on the label:

Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha

Additional Labeling

EUH208 Contains neodecanoic acid, cobalt salt, phthalic anhydride. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version 2.3	Revision Date: 26.01.2023	SDS Number: 6004892	Date of last issue: 16.01.2023 Date of first issue: 26.01.2023
----------------	------------------------------	------------------------	---

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Alkyd-resin-based lacquer, solvent-containing

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	64742-48-9 265-150-3 649-327-00-6 01-2119457273-39, 01-2119463258-33	Flam. Liq. 3; H226 STOT SE 3; H336 Asp. Tox. 1; H304 EUH066	>= 20 - < 30
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	64742-48-9 265-150-3 649-327-00-6 01-2119457273-39, 01-2119463258-33, 01-2119486659-16	Asp. Tox. 1; H304 EUH066	>= 1 - < 10
trizinc bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
2-Pentanone, oxime	623-40-5 484-470-6 01-2119980079-27, 01-0000020248-72	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic 3; H412 STOT RE 2; H373 (Blood, spleen)	>= 1 - < 2,5
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351	>= 0,1 - < 1
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32, 01-2120089607-43, 01-2120767291-53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
neodecanoic acid, cobalt salt	27253-31-2 248-373-0 01-2119970733-31	Acute Tox. 4; H302 Skin Sens. 1; H317 STOT RE 1; H372 (Other)	>= 0,1 - < 0,25

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version 2.3	Revision Date: 26.01.2023	SDS Number: 6004892	Date of last issue: 16.01.2023 Date of first issue: 26.01.2023
----------------	------------------------------	------------------------	---

		Aquatic Chronic 3; H412	
phthalic anhydride	85-44-9 201-607-5 607-009-00-4 01-2119457017-41	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335	>= 0,1 - < 1
Substances with a workplace exposure limit :			
Talc (Mg3H2(SiO3)4)	14807-96-6 238-877-9 01-2120140278-58		>= 1 - < 10
barium sulfate	7727-43-7 231-784-4 01-2119491274-35		>= 1 - < 10
Silica gel, pptd., cryst.-free	112926-00-8 231-545-4 01-2119379499-16, 01-2120105300-82		>= 1 - < 10
bismuth vanadium tetraoxide	14059-33-7 237-898-0 01-2119486965-17		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Never give anything by mouth to an unconscious person.
If you feel unwell, seek medical advice (show the label where possible).
Move out of dangerous area.
First aider needs to protect himself.
- If inhaled : Call a physician.
If breathing is irregular or stopped, administer artificial respiration.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
Move to fresh air.
- In case of skin contact : Do NOT use solvents or thinners.
In case of contact, immediately flush skin with soap and plenty of water.
Take off all contaminated clothing immediately.
- In case of eye contact : If eye irritation persists: Get medical advice/ attention.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed : Seek medical advice.
Clean mouth with water and drink afterwards plenty of water.
If swallowed, DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Do not use a solid water stream as it may scatter and spread fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.
In the event of fire and/or explosion do not breathe fumes.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Ensure adequate ventilation.
Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.

, For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Non-sparking tools should be used.
For personal protection see section 8.
Avoid exceeding the given occupational exposure limits (see section 8).
Provide sufficient air exchange and/or exhaust in work rooms.

Please follow the technical information.

Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Avoid contact with the skin and the eyes. Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Specific use(s) : This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9	AGW	300 mg/m3	DE TRGS 900
Peak-limit category: 2;(II)				
Further information: Group exposure limit for hydrocarbon solvent mixtures				
Talc (Mg3H2(SiO3)4)	14807-96-6	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900
Peak-limit category: 2;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900
Peak-limit category: 2;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
		BM (Alveolar dust fraction)	0,5 mg/m3	DE TRGS 527
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9	AGW	300 mg/m3	DE TRGS 900
Peak-limit category: 2;(II)				
Further information: Group exposure limit for hydrocarbon solvent mixtures				
barium sulfate	7727-43-7	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version 2.3 Revision Date: 26.01.2023 SDS Number: 6004892 Date of last issue: 16.01.2023
Date of first issue: 26.01.2023

		Peak-limit category: 2;(II)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		AGW (Alveolate fraction)	1,25 mg/m ³	DE TRGS 900
		Peak-limit category: 2;(II)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		BM (Alveolar dust fraction)	0,5 mg/m ³	DE TRGS 527
Silica gel, pptd., cryst.-free	112926-00-8	AGW (Inhalable fraction)	4 mg/m ³ (Silica)	DE TRGS 900
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
bismuth vanadium tetraoxide	14059-33-7	AGW (Alveolate fraction)	0,001 mg/m ³	DE TRGS 900
		Peak-limit category: 8;(II)		
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	AGW (Inhalable fraction)	10 mg/m ³ (Titanium dioxide)	DE TRGS 900
		Peak-limit category: 2;(II)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		AGW (Alveolate fraction)	1,25 mg/m ³ (Titanium dioxide)	DE TRGS 900
		Peak-limit category: 2;(II)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		BM (Alveolar dust fraction)	0,5 mg/m ³	DE TRGS 527

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
Kaolin, calcined	Workers	Inhalation	Acute systemic effects	3,00 mg/m ³
	Workers	Inhalation	Acute local effects	3,00 mg/m ³
	Workers	Inhalation	Long-term systemic effects	3,00 mg/m ³
	Workers	Inhalation	Long-term local effects	3,00 mg/m ³
calcium carbonate	Consumers	Ingestion	Long-term systemic effects	6,10 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	10,00 mg/m ³
	Consumers	Ingestion	Acute systemic effects	6,10 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version 2.3 Revision Date: 26.01.2023 SDS Number: 6004892 Date of last issue: 16.01.2023
Date of first issue: 26.01.2023

			fects	bw/day
	Workers	Inhalation	Long-term systemic effects	10,00 mg/m3
barium sulfate	Consumers	Inhalation	Long-term systemic effects	10,00 mg/m3
	Consumers	Ingestion	Long-term systemic effects	13000,00 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	10,00 mg/m3
	Workers	Inhalation	Long-term local effects	10,00 mg/m3
bismuth vanadium tetraoxide	Consumers	Ingestion	Long-term systemic effects	0,33 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	0,33 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	0,01 mg/m3
	Workers	Inhalation	Long-term local effects	0,02 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,67 mg/kg bw/day
polychloro copper phthalocyanine	Consumers	Skin contact	Long-term systemic effects	225,00 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	45,00 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	4,00 mg/m3
	Workers	Skin contact	Long-term systemic effects	450,00 mg/kg bw/day
trizinc bis(orthophosphate)	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,50 mg/m3
	Workers	Inhalation	Long-term systemic effects	5,00 mg/m3
	Workers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
2-Pentanone, oxime	Consumers	Ingestion	Acute systemic effects	0,38 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	6,21 mg/m3
	Consumers	Skin contact	Acute systemic effects	0,38 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	0,13 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,07 mg/m3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version 2.3 Revision Date: 26.01.2023 SDS Number: 6004892 Date of last issue: 16.01.2023
Date of first issue: 26.01.2023

	Consumers	Ingestion	Long-term systemic effects	0,13 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	24,90 mg/m3
	Workers	Inhalation	Long-term systemic effects	8,30 mg/m3
	Workers	Skin contact	Acute systemic effects	0,62 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	0,21 mg/kg bw/day
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	Consumers	Ingestion	Long-term systemic effects	700,00 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	10,00 mg/m3
zinc oxide	Consumers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,50 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	0,50 mg/m3
	Workers	Inhalation	Long-term systemic effects	5,00 mg/m3
neodecanoic acid, cobalt salt	Consumers	Ingestion	Long-term systemic effects	64,90 $\mu\text{g/kg}$ bw/day
	Consumers	Inhalation	Long-term local effects	43,00 $\mu\text{g/m}^3$
	Workers	Inhalation	Long-term local effects	273,20 $\mu\text{g/m}^3$
phthalic anhydride	Consumers	Inhalation	Long-term systemic effects	8,60 mg/m3
	Consumers	Ingestion	Long-term systemic effects	5,00 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	5,00 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	32,20 mg/m3
	Workers	Skin contact	Long-term systemic effects	10,00 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Kaolin, calcined	Intermittent use/release	25 mg/l
	Fresh water	4,1 mg/l
	Sea water	0,41 mg/l
	Sewage treatment plant	1400 mg/l
calcium carbonate	Sewage treatment plant	100 mg/l
barium sulfate	Fresh water	115 µg/l
	Fresh water sediment	600,4 mg/kg dry weight (d.w.)
	Soil	207,7 mg/kg dry weight (d.w.)
	Sewage treatment plant	62,2 mg/l
bismuth vanadium tetraoxide	Sewage treatment plant	10000 mg/l
polychloro copper phthalocyanine	Soil	1 mg/kg dry weight (d.w.)
	Fresh water sediment	10 mg/kg dry weight (d.w.)
	Sea sediment	1 mg/kg dry weight (d.w.)
trizinc bis(orthophosphate)	Sea sediment	56,5 mg/kg dry weight (d.w.)
	Fresh water	20,6 µg/l
	Soil	35,6 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 µg/l
	Fresh water sediment	117,8 mg/kg dry weight (d.w.)
	Sea water	6,1 µg/l
2-Pentanone, oxime	Fresh water	0,088 mg/l
	Soil	0,05 mg/kg dry weight (d.w.)
	Fresh water sediment	0,5 mg/kg dry weight (d.w.)
	Sewage treatment plant	2 mg/l
	Intermittent use/release	0,88 mg/l
	Sea sediment	0,05 mg/kg dry weight (d.w.)
	Sea water	0,0088 mg/l
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	Sewage treatment plant	100 mg/l
	Fresh water	0,184 mg/l
	Soil	100 mg/kg dry weight (d.w.)
	Sea water	0,0184 mg/l
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
	Sea sediment	100 mg/kg dry weight (d.w.)

DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

	Intermittent use/release	0,193 mg/l
zinc oxide	Fresh water sediment	117,8 mg/kg dry weight (d.w.)
	Sea water	6,1 µg/l
	Fresh water	20,6 µg/l
	Sea sediment	56,5 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 µg/l
	Soil	35,6 mg/kg dry weight (d.w.)
neodecanoic acid, cobalt salt	Soil	10,9 mg/kg dry weight (d.w.)
	Sea water	2,36 µg/l
	Sea sediment	9,5 mg/kg dry weight (d.w.)
	Fresh water sediment	9,5 mg/kg dry weight (d.w.)
	Fresh water	0,6 µg/l
	Sewage treatment plant	0,37 mg/l
phthalic anhydride	Soil	0,173 mg/kg dry weight (d.w.)
	Fresh water sediment	3,8 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Intermittent use/release	5,6 mg/l
	Sea sediment	0,38 mg/kg dry weight (d.w.)
	Sea water	0,1 mg/l
	Fresh water	1 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : DGUV Regulation 112-192 - Use of eye and face protection
Goggles

Hand protection

Material : Nitrile rubber
Glove thickness : 0,2 mm
Protective index : Class 3

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. Wear suitable gloves tested to EN374.
DGUV Regulation 112-195 - Use of protective gloves

Skin and body protection : Safety shoes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Long sleeved clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Skin should be washed after contact.

During spray application: impervious clothing

Respiratory protection : Roller application or brushing: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

DGUV Regulation 112-190 - Use of breathing equipment

During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: Not relevant
Melting point/freezing point	: not determined
Boiling point/boiling range	: not determined
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Flash point	: 41,5 °C
Autoignition temperature	: not determined
Decomposition temperature	: Not applicable
pH	: 6,95 Concentration: 10 %

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	> 20,5 mm ² /s (40 °C)
Flow time	:	> 60 s at 23 °C Cross section: 6 mm Method: ISO 2431
Solubility(ies)		
Water solubility	:	partly miscible
Partition coefficient: n-octanol/water	:	not determined
Vapor pressure	:	not determined
Relative density	:	not determined
Density	:	1,2300 g/cm ³
Relative vapor density	:	Heavier than air.

9.2 Other information

Explosives	:	Not applicable
Oxidizing properties	:	Not applicable
Flammability (liquids)	:	Sustains combustion
Evaporation rate	:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Vapors may form explosive mixture with air. Hazardous decomposition products formed under fire conditions.
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10.4 Conditions to avoid

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Incompatible with acids and bases.
Incompatible with oxidizing agents.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

2-Pentanone, oxime:

Acute oral toxicity : LD50 (Rat, female): 1.133 mg/kg
Method: OECD Test Guideline 425

phthalic anhydride:

Acute oral toxicity : LD50 (Rat): 1.530 mg/kg

Silica gel, pptd., cryst.-free:

Acute oral toxicity : LD50 Oral (Rat): > 10.000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Components:

2-Pentanone, oxime:

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Serious eye damage/eye irritation

Not classified based on available information.

Components:

2-Pentanone, oxime:

Species	:	Rabbit
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 405
Result	:	irritating

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-Pentanone, oxime:

- Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): >= 100 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 88 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 32 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : see user defined free text : > 20 mg/l
Exposure time: 28 h

barium sulfate:

- Toxicity to fish : Remarks: No toxicity at the limit of solubility.
- Toxicity to daphnia and other aquatic invertebrates : Remarks: No toxicity at the limit of solubility.
- Toxicity to algae/aquatic plants : Remarks: No toxicity at the limit of solubility.
- Toxicity to fish (Chronic toxicity) : Remarks: No toxicity at the limit of solubility.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No toxicity at the limit of solubility.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

12.2 Persistence and degradability

Components:

2-Pentanone, oxime:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 9 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : .

Waste should not be disposed of via wastewater.

Contaminated packaging : Only completely emptied containers should be given for recy-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

cling.

Waste Code : used product
080112, waste paint and varnish other than those mentioned
in 08 01 11*

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: UN 1263
ADR	: UN 1263
RID	: UN 1263
IMDG	: UN 1263
IATA	: UN 1263

14.2 UN proper shipping name

ADN	: PAINT
ADR	: PAINT
RID	: PAINT
IMDG	: PAINT
IATA	: Paint

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	
IATA	: 3	

14.4 Packing group

ADN	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3

ADR	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Labels : 3
Tunnel restriction code : (D/E)

RID

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Remarks : ADR: Packages smaller than or equal to 450 liters, not goods/merchandise of Class 3
IMDG: Packages smaller than or equal to 450 liters, not goods/merchandise of Class 3

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	:	This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	None
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	P5c	FLAMMABLE LIQUIDS
	34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)
Water hazard class (Germany)	:	WGK 1 slightly water endangering Classification according to AwSV, Annex 1 (5.2)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Product code for laquers and paints / Giscode : M-GP02 Solvent-based primers, pigmented, aromatics removed

. : BSL40 Coating materials, strongly solvent-based, aromatic-free, classified

Volatile organic compounds : Directive 2004/42/EC
< 33 %
< 400 g/l

Other regulations:

Due to the low water solubility of the bismuth vanadate pigments used, the criteria for classifying the mixture with water contaminating class 3 are not met.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapor.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H351 : Suspected of causing cancer if inhaled.
H372 : Causes damage to organs through prolonged or repeated exposure if swallowed.
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.
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.
EUH066 : Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Asp. Tox.	:	Aspiration hazard
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Resp. Sens.	:	Respiratory sensitization
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitization
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
DE TRGS 527	:	Germany. TRGS 527 - Activities with nanomaterials
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 527 / BM	:	Assessment scale
DE TRGS 900 / AGW	:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information:

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

Sources of key data used to compile the Material Safety Data Sheet:

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH

NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DE / EN

Metallschutz-Lack Dunkelgrün matt

Version	Revision Date:	SDS Number:	Date of last issue: 16.01.2023
2.3	26.01.2023	6004892	Date of first issue: 26.01.2023

Toxnet - Toxicology Data Network

Classification of the mixture:

Flam. Liq. 3	H226
STOT SE 3	H336
Aquatic Chronic 3	H412

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

DE / EN