Safety data sheet
acc. to 1907/2006/EC, article 31

Print date: 01.01.2023 *Version number 1* *revised on: 01.01.2023*

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

· **1.1 Product identifier**

· **Trade name: Protect-proof LF 1K**

· **UFI:** 0Q4T-7UHV-400Y-E2QW

· **1.2 Relevant identified uses of the substance or mixture and uses which are not advised**
No further relevant information available.

· **Application of the substance / the mixture** Adhesive

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

· **Manufacturer/Supplier:**
Protect-proof Kunststoff Vertriebs GmbH
Wacholderweg 11
26133 Oldenburg

· **Information provided by:**
mobile +49 151-63423939
email: info@protect-proof.de

· **1.4 Emergency number:**
Joint Poison Control Centre in Göttingen
Phone: +49(0)55119240

SECTION 2: Potential hazards

· **2.1 Classification of the substance or mixture**

· **Classification acc. to Regulation (EC) No 1272/2008**
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **2.2 Marking elements**

· **Marking acc. to Regulation (EC) No 1272/2008**
The product is classified and marked according to the CLP Regulation.

· **Hazard pictograms** Not applicable

· **Signal word** Not applicable

· **Hazard warnings**
H412 Harmful to aquatic life with long lasting effects.

· **Safety instructions**
P101 If medical advice is needed, have the container or label at hand.
P102 Keep out of the reach of children.
P103 Read all instructions carefully and follow them.
P273 Avoid release to the environment.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

· **Additional information:**
Contains Hindered Amine Light Stabilizer (HALS). May cause allergic reactions.
Attention! Hazardous respirable droplets may be produced during spraying. Do not inhale aerosol or mist.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

(continued on page 2)

· ***vPvB:*** Not applicable. (continued from page 1)

*

SECTION 3: Composition/information on ingredients

· ***3.2 Mixtures***
· ***Description:***
Mixture: consisting of the substances listed below.
Mixture of substances listed below with non-labelled admixtures.

· ***Hazardous ingredients:***		
CAS: 13463-67-7 EINECS: 236-675-5 Reg.no: 01-2119489379-17-X	Titanium (IV) oxide ~ Carc. 2, H351	2,5 - 10%
CAS: 13822-56-5 EINECS: 237-511-5 Reg.no: 01-2119510159-45-X	3-aminopropyl trimethoxysilane ~ Eye Dam. 1, H318; ~ Skin Irrit. 2, H315 Spec. conc. limits: Skin Irrit. 2; H315: C ≥ 10 % Eye Irrit. 2; H319: C ≥ 3 %	≥ 1 - < 2,5%
	Hindered Amine Light Stabilizer (HALS) ~ Repr. 2, H361f; ~ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ~ Skin Sens. 1, H317	≥ 0.25 - < 1%
· ***Ingredients acc. to Detergents Regulation EC 648/2004***		
Dye		

· ***Add. notes:***
The product contains titanium dioxide which is suspected to cause cancer by inhalation. This classification is linked to the powder form of the substance.
The present product contains the titanium dioxide in a form that excludes dust release.
Under foreseeable conditions of use, a health hazard can be excluded.
The wording of the listed hazard phrases can be found in section 16.

SECTION 4: First aid measures

· ***4.1 Description of the first aid measures***
· ***After inhalation:*** Supply fresh air; consult doctor in case of complaints
· ***After skin contact:***
Wash off with soap and water.
Consult a doctor if complaints persist.
· ***After eye contact:***
Rinse opened eye for several minutes with running water.
Consult a doctor if complaints persist.
· ***After swallowing:*** Consult a doctor if complaints persist.
· ***4.2 Most important symptoms and effects, both acute and delayed***
No further relevant information available.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:***
Water spray, alcohol-resistant foam, CO_2, powder. Sand.
Adapt fire extinguishing measures to the surroundings.
· ***Extinguishing agents unsuitable for safety reasons:*** Water in full jet.

(continued on page 3)

Trade name: Protect-proof LF 1K

(continued from page 2)

· **5.2 Special hazards arising from the substance or mixture**
In the event of a fire, the following may be released:
Carbon monoxide and carbon dioxide.
Inhalation of fire gases can cause serious damage to health.
· **5.3 Advice for firefighters**
· **Special protective equipment:**
Do not breathe explosion and fire gases. Wear self-contained breathing apparatus.
· **Further information**
Collect contaminated extinguishing water separately, do not allow it to enter the sewage system.
Ensure sufficient retention of extinguishing water. Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
· **Personnel not trained for emergencies** Ensure sufficient ventilation.
· **6.2 Environment measures:**
Do not allow to enter sewage system/surface water/groundwater.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of the absorbed material according to regulations.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Avoid contact with eyes, skin and clothing.
Use only in well-ventilated areas.
· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry place in well-sealed containers.
Protect from moisture.
Protect from frost.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Recommended storage temperature: 5-30 °C
· **Storage class:** 12
· **Classification acc. to the German Ordinance on Industrial Safety and Health (BetrSichV):** -
· **7.3 Specific end uses** No further relevant information available.

SECTION 8: Exposure controls/ Personal protective equipment

· **8.1 Control parameters**
· **Components with limit values that require monitoring at the workplace:**
OLV: Occupational limit value

(continued on page 4)

Trade name: Protect-proof LF 1K

(continued from page 3)

· **DNEL values**		
13463-67-7 Titanium (IV) oxide		
Oral	DNEL (consumer, long-term, systemic)	700 mg/kg bw/day (person)
Inhalation	DNEL (worker, long-term, local)	10 mg/m³ (person)

· **PNEC values**	
13463-67-7 Titanium (IV) oxide	
PNEC aqua (freshwater)	0,127 mg/l (.)
PNEC aqua (marine water)	1 mg/l (.)
PNEC STP	100 mg/l (.)
PNEC soil	100 mg/kg soil dw (.)
PNEC sediment (freshwater)	1 000 mg/kg sedim. dw (.)
PNEC sediment (marine water)	100 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0,61 mg/l (.)
PNEC oral	1 667 mg/kg food (.)

· ***Additional notes:*** The lists valid at the time of compilation served as a basis.

· ***8.2 Exposure controls and monitoring***

· ***Individual protective measures, for example personal protective equipment***

· ***General protective and hygienic measures:***
Wash hands before breaks and at the end of work.
Do not eat or drink while working.

· ***Respiratory protection*** Not required.

· ***Protection of hands***
The glove material must be impermeable and resistant to the product / substance / mixture.
Due to lack of tests, no recommendation can be made on the glove material for the product / mixture / chemical mixture.
Selection of glove material considering break through times, permeation rates and degradation.

· ***Material of gloves***
The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer.
As the product is a mixture of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

· ***Penetration time of glove material***
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· ***Eye/face protection*** Safety goggles recommended when decanting.

SECTION 9: Physical and chemical properties

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

· ***General information***

· ***Aggregate state***	Liquid
· ***Colour***	Grey
· ***Odour:***	characteristic
· ***Odour threshold:***	Not determined.
· ***Melting point/freezing point:***	Not determined.
· ***Boiling point or initial boiling point and boiling range***	2900 °C (13463-67-7 Titanium (IV) oxide)
· ***Flammability***	Not applicable.
· ***Lower and upper explosion limits***	
lower:	Not determined.

(continued on page 5)

Trade name: Protect-proof LF 1K

(continued from page 4)

upper:	Not determined.
· **Flash point:**	Not applicable.
· **Ignition temperature:**	The product is not self-igniting.
· **Decomposition temperature:**	Not determined.
· **SADT**	
· **pH value:**	Not determined.
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.
dynamic:	Not determined.
· **Solubility**	
· **Water:**	Not or only slightly miscible
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure:**	Not determined.
· **Density and/or relative density**	
· **Density at 20 °C:**	0,35 - 1,4 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Liquid
· **Important health, safety and environmental information**	
· **Explosive properties:**	The product is not explosive.
· **VOC Switzerland**	1,41 %
· **VOC USA**	
· **Solids content:**	5,0 %
· **Change of state**	
· **Evaporation rate**	Not determined.

· **Information on physical hazard classes**	
· **Explosive substances/mixtures and explosive articles**	Not applicable
· **Flammable gases**	Not applicable
· **Aerosols**	Not applicable
· **Oxidising gases**	Not applicable
· **Gases under pressure**	Not applicable
· **Flammable liquids**	Not applicable
· **Flammable solids**	Not applicable
· **Self-reactive substances and mixtures**	Not applicable
· **Pyrophoric liquids**	Not applicable
· **Pyrophoric solids**	Not applicable
· **Self-heating substances and mixtures**	Not applicable
· **Substances and mixtures which emit flammable gases when in contact with water**	Not applicable
· **Oxidising liquids**	Not applicable
· **Oxidising solids**	Not applicable
· **Organic peroxides**	Not applicable
· **Substances and mixtures corrosive to metals**	Not applicable
· **Desensitised substances/mixtures and explosive articles**	Not applicable

(continued on page 6)

Trade name: Protect-proof LF 1K

(continued from page 5)

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition when used as intended.
· **10.3 Possibility of hazardous reactions** No hazardous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:**
None if used as intended and stored according to instructions.

SECTION 11: Toxicological information

· **11.1 Information on hazard classes within the meaning of Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
13463-67-7 Titanium (IV) oxide		
Oral	LD50	> 5 000 mg/kg (rat) (OECD 425)
Inhalation	LC50	> 6,82 mg/l/4h (rat)

· **Skin corrosion/irritation**
Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation**
Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity**
Based on available data, the classification criteria are not met.
· **STOT-single exposure**
Based on available data, the classification criteria are not met.
· **STOT-repeated exposure**
Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients are included.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
13463-67-7 Titanium (IV) oxide	
EC50	300 - 400 mg/l/96h (Daphnia magna)
	> 100 mg/l/96h (Oncorhynchus mykiss) (OECD 203)

· **12.2 Persistence and degradability** No further relevant information available.
· **Other notes:** No information on the mixture is available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

(continued on page 7)

Trade name: Protect-proof LF 1K

(continued from page 6)

· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties**
The product does not contain any substances with endocrine disrupting properties.
· **12.7 Other harmful effects**
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (self-classification): clearly hazardous for water.
Do not allow to reach ground water, water bodies or sewage system. Danger to drinking water even if small quantities leak into the ground.

*

SECTION 13: Disposal instructions

· **13.1 Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household waste. Do not allow to enter sewage system.
The waste codes given are recommendations based on the expected use of the product.

· **European Waste Catalogue**	
08 00 00	WASTES FROM THE MANUFACTURE, PREPARATION, DISTRIBUTION AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES, ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	Waste from MFSU of adhesives and sealants (including water-repellent materials)
08 04 09*	Waste adhesives and sealants containing organic solvents or other hazardous substances
HP7	Carcinogenic
HP14	Ecotoxic

· **Uncleaned packaging:**
· **Recommendation:**
The packaging must be disposed of in accordance with the Packaging Act.
Non-contaminated packaging can be recycled.
Packaging that cannot be cleaned must be disposed of in the same way as the substance itself.

*

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR/ADN, IMDG, IATA**	Not applicable
· **14.2 UN proper shipping name**	
· **ADR/ADN, IMDG, IATA**	Not applicable
· **14.3 Transport hazard classes**	
· **ADR/ADN, ADN, IMDG, IATA**	
· **Class**	Not applicable
· **14.4 Packing group**	
· **ADR/ADN, IMDG, IATA**	Not applicable
· **14.5 Environmental hazards:**	Not applicable.
· **14.6 Special precautions for user**	Not applicable
· **14.7 Transport in bulk by sea in accordance with IMO instruments**	Not applicable.

(continued on page 8)

Trade name: Protect-proof LF 1K

(continued from page 7)

· **Transport/additional information:**	No dangerous goods acc. to the above regulations
· **UN "Model Regulation":**	Not applicable

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients are included.
· **REGULATION (EC) No 1907/2006 ANHANG XVII** Restriction conditions: 3

· **Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients are included.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVE SUBSTANCES (upper concentration limit for a permit pursuant to Article 5 paragraph 3)**
None of the ingredients are included.

· **Annex II - REPORTABLE PRECURSORS FOR EXPLOSIVES**
None of the ingredients are included.

· **Regulation (EC) No 273/2004 concerning drug precursors**
None of the ingredients are included.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries**
None of the ingredients are included.

· **National regulations:**

· **Water hazard class:** WGK 2 (self-classification): clearly hazardous for water.
· **Other regulations, restrictions and prohibitions**

· **Substances of very high concern (SVHC) according to REACH, article 57**
None of the ingredients are included.

· **15.2 Chemical safety assessment:** A chemical safety assessment has not been carried out.

SECTION 16: Other information

The information is based on the current state of our knowledge but does not constitute a guarantee of product characteristics and does not establish a contractual legal relationship.

· **Relevant phrases**
The phrases given here are not marking elements for the product but repeat the properties of the ingredients from section 3.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H361f Suspected of damaging fertility.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

(continued on page 9)

Trade name: Protect-proof LF 1K

(continued from page 8)

· **Data sheet issuing info:**

DEKRA This EC Safety Data Sheet was prepared in cooperation with DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hannover, phone: (+49) 511 42079 - 0, reach@dekra.com.

© DEKRA Assurance Services GmbH. Modification of this document requires the express consent of DEKRA Assurance Services GmbH.

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin irritant/corrosive effect - Category 2
Eye Dam. 1: Serious eye damage/eye irritation - Category 1
Skin Sens. 1: Skin sensitisation - Category 1
Carc. 2: Carcinogenicity - Category 2
Repr. 2: Reproductive toxicity - Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acutely hazardous to the aquatic environment - Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term hazardous to the aquatic environment - Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term hazardous to the aquatic environment - Category 3

· ***** Data compared to the previous version altered**