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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

(GB)

Refinish Universal Polish P336 1000 ml Art.: 6100 1734, Art.: 6104 1734

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

Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 – 15 74196 Neuenstadt Tel.: 07139/95-0 Fax: 07139/95-199 Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (TFC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH205-Contains epoxy constituents. May produce an allergic reaction. EUH210-Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).



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SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

| White mineral oil (Natural oil) | |
|--|-----------------------|
| Registration number (REACH) | 01-2119487078-27-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 232-455-8 |
| CAS | 8042-47-5 |
| content % | 10-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304 |
| | |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics | |
|--|-----------------------|
| Registration number (REACH) | 01-2119457273-39-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 918-481-9 |
| CAS | (64742-48-9) |
| content % | 1-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 |
| | Asp. Tox. 1, H304 |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. The following may occur: Irritation of the eyes Mechanical irritation possible. Irritant effect to damaged skin. Ingestion of large quantities: Nausea Diarrhoea

4.3 Indication of any immediate medical attention and special treatment needed



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Symptomatic treatment.

(GB)

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of sulphur Oxides of nitrogen Toxic gases

5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Or:

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid build up of dust. Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace



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Human - oral

Consumer

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed. **7.2 Conditions for safe storage, including any incompatibilities**

Not to be stored in gangways or stair wells. Store product closed and only in original packing. Store at room temperature. Store in a dry place.

7.3 Specific end use(s)

œ

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3

| Chemical Name | Hydrocarbons, C10-0 | C13, n-alkanes, isoalkanes, cyc | clics, <2% aron | natics | | |
|--|--------------------------------------|---------------------------------|-----------------|-----------|-----------------|------------|
| WEL-TWA: 800 mg/m3 | | WEL-STEL: | | | | |
| Monitoring procedures: | - Dra | aeger - Hydrocarbons 0,1%/c (8 | 81 03 571) | | · | |
| | | aeger - Hydrocarbons 2/a (81 0 | 3 581) | | | |
| | - Co | mpur - KITA-187 S (551 174) | | | | <u></u> |
| BMGV: | | | | | DEL acc. to R | CP-method, |
| | | | paragraphs | 84-87, EH | 140) | |
| Chemical Name | Glycerine | | | | | |
| WEL-TWA: 10 mg/m3 (mi | st) | WEL-STEL: | | | | |
| Monitoring procedures: | | | | | | |
| BMGV: | | | Other inform | mation: | - | |
| Chemical Name | Aluminium oxide | | | | | |
| WEL-TWA: 10 mg/m3 (tot | | WEL-STEL: | | | | |
| (resp. dust) (aluminium oxic | | | | | | |
| Monitoring procedures: | | | | | · | |
| BMGV: | | | Other inform | mation: | - | |
| | | | | | | |
| | | | | | | |
| White mineral oil (Natural | oil) | | | | | |
| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
| | Environmental | | | | | |
| | compartment | | | | | |
| Consumer | Human - dermal | Long term, systemic | DNEL | 92 | mg/kg | |
| | | effects | | | bw/day | |
| Consumer | Human - inhalation | Long term, systemic | DNEL | 35 | mg/m3 | |
| | | effects | DNE | 40 | | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 40 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 160 | bw/day mg/m3 | |
| Workers / employees Workers / employees | Human - Innalation Human - dermal | Long term, local effects | DNEL | 220 | mg/kg | |
| Workers / employees | Human - dermal | Long term, systemic | DNEL | 220 | mg/kg | |
| | | effects | | 220 | bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic | DNEL | 160 | mg/m3 | |
| | | effects | | | | |
| L | | | 1 | 1 | | 1 |
| | | | | | | |
| | n-alkanes, isoalkanes, cyclics | | | | | |
| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
| | Environmental | | | | | |
| | compartment | | | | | |

Long term, systemic

effects

DNEL

300

mg/kg



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| Consumer | Human - dermal | Long term, systemic effects | DNEL | 300 | mg/kg | |
|---------------------|--------------------|--------------------------------|------|-----|-------|--|
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 900 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 300 | mg/kg | |

| Glycerine | | | | | | |
|---------------------|--|--------------------------------|------------|-------|-----------------|------|
| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
| | Environmental | | | | | |
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 0,885 | mg/l | |
| | Environment - marine | | PNEC | 0,088 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 1000 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 3,3 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,33 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,141 | mg/kg dw | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 8,85 | mg/l | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 33 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 229 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 56 | mg/m3 | |

Aluminium oxide

(GB)

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------|------------|-------|-----------------|------|
| | Environment - sewage treatment plant | | PNEC | 20 | mg/l | |
| Industrial | Human - inhalation | Long term | DNEL | 3 | mg/m3 | |
| Commercial | Human - inhalation | Long term | DNEL | 3 | mg/m3 | |
| Consumer | Human - oral | Long term | DNEL | 6,22 | mg/kg bw/day | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).

(11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".



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8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,35 Permeation time (penetration time) in minutes: > 480 Protective hand cream recommended. The breaktbrough times determined in accordance with EN 1

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

(GB)

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state: | Liquid |
|---|--|
| Colour: | Grey |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability: | Not combustible. |
| Lower explosion limit: | There is no information available on this parameter. |
| Upper explosion limit: | There is no information available on this parameter. |
| Flash point: | There is no information available on this parameter. |
| Auto-ignition temperature: | There is no information available on this parameter. |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | 8,5 |
| Kinematic viscosity: | >20,5 mm2/s (40°C) |
| Solubility: | Mixable |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures. |



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Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Oxidising liquids:

(GB)

There is no information available on this parameter. 1 g/ml There is no information available on this parameter.

Does not apply to liquids.

Product is not explosive. No

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. 10.3 Possibility of hazardous reactions No dangerous reactions are known. 10.4 Conditions to avoid None known **10.5 Incompatible materials** None known **10.6 Hazardous decomposition products**

No decomposition when used as directed.

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin | | | | | | n.d.a. |
| sensitisation: | | | | | | |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - | | | | | | n.d.a. |
| single exposure (STOT-SE): | | | | | | |
| Specific target organ toxicity - | | | | | | n.d.a. |
| repeated exposure (STOT-RE): | | | | | | |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

| White mineral oil (Natural oil) | | | | | | |
|----------------------------------|----------|-------|---------|------------|-----------------------|-------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral | |
| | | | | | Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute | |
| | | | | | Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5 | mg/l/4h | Rat | OECD 403 (Acute | |
| | | | | | Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosion) | |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Not irritant |
| | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | No (skin contact) |
| sensitisation: | | | | | Sensitisation) | |



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| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
|---|-------|--------|---------------|---------------------------|---|-------------------------|
| Carcinogenicity: | NOAEL | >1200 | mg/kg | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Negative |
| Reproductive toxicity: | | | | | OECD 415 (One- Generation Reproduction Toxicity Study) | Negative |
| Reproductive toxicity: | NOAEL | >=1000 | mg/kg bw/d | Rat | OECD 421 (Reproduction/Developm ental Toxicity Screening Test) | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL | >1200 | mg/kg | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL | >1200 | mg/kg | | OECD 452 (Chronic Toxicity Studies) | |
| Aspiration hazard: | | | | | | Asp. Tox. 1 |
| Symptoms: | | | | | | nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | >2000 | mg/kg | Rat | OECD 411 (Subchronic Dermal Toxicity - 90-day Study) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | 1000 | mg/kg | Rabbit | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day) | |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|----------|---------------------------|---|---|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5000 | mg/m3/8h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Acute toxicity, by inhalation: | LC50 | >5 | mg/m3/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours, Analogous conclusion |
| Skin corrosion/irritation: | | | | | | Repeated exposure may cause skin dryness or cracking., Product removes fat. |
| Skin corrosion/irritation: | | | | | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Analogous conclusion |
| Serious eye damage/irritation: | | | | | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative, Analogous conclusion |
| Carcinogenicity: | | | | | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Negative, Analogous conclusion |



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| Reproductive toxicity: | | | | | OECD 421 | Negative, |
|----------------------------------|-------|---------|-------|-----|--------------------------|--------------------|
| | | | | | (Reproduction/Developm | Analogous |
| | | | | | ental Toxicity Screening | conclusion |
| | | | | | Test) | |
| Reproductive toxicity: | NOAEC | >= 5220 | mg/m3 | Rat | OECD 414 (Prenatal | Negative, |
| | | | | | Developmental Toxicity | Analogous |
| | | | | | Study) | conclusioninhalat |
| | | | | | | ion |
| Specific target organ toxicity - | | | | | OECD 408 (Repeated | No indications of |
| repeated exposure (STOT-RE): | | | | | Dose 90-Day Oral | such an effect., |
| | | | | | Toxicity Study in | Analogous |
| | | | | | Rodents) | conclusion |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | unconsciousness |
| | | | | | | , headaches, |
| | | | | | | dizziness, |
| | | | | | | Dermatitis (skin |
| | | | | | | inflammation), |
| | | | | | | Reddening, |
| | | | | | | drying of the |
| | | | | | | skin., mucous |
| | | | | | | membrane |
| | | | | | | irritation, nausea |
| | | | | | | and vomiting., |
| | | | | | | diarrhoea, lower |
| | | | | | | abdominal pain |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|--------|---------|---------------------------|---|---|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >10000 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | Rabbit | IUCLID Chem. Data Sheet (ESIS) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | 2000 | mg/kg/d | | | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL | 3,91 | mg/l | Rat | | 14d |
| Aspiration hazard: | | | | | | Negative |
| Symptoms: | | | | | | abdominal pain, drowsiness, diarrhoea, vomiting, headaches, mucous membrane irritation, nausea |

| Aluminium oxide | | | | | | |
|--------------------------------|----------|-------|---------|----------|--|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by oral route: | NOAEL | 30 | mg/kg | Rat | | Analogous conclusion |
| Acute toxicity, by inhalation: | NOAEC | 70 | mg/m3 | Rat | | subchronic |
| Acute toxicity, by inhalation: | LC50 | 7,6 | mg/l/4h | Rat | | Aerosol, Maximum achievable concentration. |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |



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| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
|---|-------|----|-------|------------|--|--------------------------------------|
| Respiratory or skin sensitisation: | | | | Guinea pig | | Not sensitizising |
| Germ cell mutagenicity: | | | | | in vivo | Negative, Analogous conclusion |
| Symptoms: | | | | | | constipation |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL | 70 | mg/m3 | Rat | | Lung damage |

11.2. Information on other hazards

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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|------|----------|-------------|-----------------|
| Endocrine disrupting properties: | - | | | | | Does not apply |
| | | | | | | to mixtures. |
| Other information: | | | | | | No other |
| | | | | | | relevant |
| | | | | | | information |
| | | | | | | available on |
| | | | | | | adverse effects |
| | | | | | | on health. |

SECTION 12: Ecological information

| Possibly more information | on environmenta | al effects, se | e Section 2 | .1 (classifica | tion). | | |
|----------------------------|-----------------|----------------|-------------|----------------|----------|-------------|------------------|
| Refinish Universal Polis | h P336 | | | | | | |
| 1000 ml Art.: 6100 1734, | Art.: 6104 1734 | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and | | | | | | | n.d.a. |
| degradability: | | | | | | | |
| 12.3. Bioaccumulative | | | | | | | n.d.a. |
| potential: | | | | | | | |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT | | | | | | | n.d.a. |
| and vPvB assessment | | | | | | | |
| 12.6. Endocrine | | | | | | | Does not apply |
| disrupting properties: | | | | | | | to mixtures. |
| 12.7. Other adverse | | | | | | | No information |
| effects: | | | | | | | available on |
| | | | | | | | other adverse |
| | | | | | | | effects on the |
| | | | | | | | environment. |
| Other information: | | | | | | | DOC-elimination |
| | | | | | | | degree(complexi |
| | | | | | | | ng organic |
| | | | | | | | substance)>= |
| | | | | | | | 80%/28d: n.a. |
| Other information: | AOX | | | % | | | According to the |
| | | | | | | | recipe, contains |
| | | | | | | | no AOX. |

| al oil) | | | | | | |
|----------|---------------------|---------------|---------------------|--------------------------|-----------------------------------|---|
| Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| | 28d | >60 | % | | OECD 301 B | Biodegradable |
| | | | | | (Ready | - |
| | | | | | Biodegradability - | |
| | | | | | Co2 Evolution | |
| | | | | | Test) | |
| | al oil) Endpoint | Endpoint Time | Endpoint Time Value | Endpoint Time Value Unit | Endpoint Time Value Unit Organism | Endpoint Time Value Unit Organism Test method 28d >60 % OECD 301 B (Ready Biodegradability - Co2 Evolution Oeccl 301 B |



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| 12.7. Other adverse effects: | | | | | | | Product floats on the water surface. |
|--------------------------------------|-----------|-----|-------|------|-------------------------------------|--|--------------------------------------|
| 12.1. Toxicity to daphnia: | EL50 | 21d | >1000 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Leuciscus idus | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 96h | >1000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EL50 | 48h | >1000 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 31,3 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily biodegradable |
| Toxicity to bacteria: | LC50 | | >1000 | mg/l | activated sludge | | |
| Toxicity to bacteria: | NOELR | | >100 | mg/l | Pseudomonas subspicata | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|---|----------|------|---------|------|-------------------------------------|--|--|
| 12.1. Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOELR | 28d | 0,10 | mg/l | Oncorhynchus mykiss | QSAR | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOELR | 21d | 0,18 | mg/l | Daphnia magna | QSÁR | |
| 12.1. Toxicity to algae: | ErL50 | 72h | >1000 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOELR | 72h | 1000 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 80 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 5,5-7,2 | | | , , , , | |
| 12.4. Mobility in soil: | Log Koc | | >3 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.7. Other adverse effects: | | | | | | | Product floats or the water surface. |
| Water solubility: | | | ~10 | mg/l | | | Slight |



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| Glycerine | | | | | | | |
|---|----------|------|---------|------|--------------------|---|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.2. Persistence and | BOD5 | | 0,87 | g/g | | | |
| degradability: | | | | | | | |
| 12.2. Persistence and | COD | | 1,16 | g/g | | | |
| degradability: | | | | | | | |
| 12.1. Toxicity to fish: | LC50 | 96h | > 5000 | mg/l | Carassius auratus | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >10000 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | EC5 | 72h | 3200 | mg/l | | | Entosiphon |
| | | | | | | | sulcatum |
| 12.1. Toxicity to algae: | EC50 | | 2900 | mg/l | Chlorella vulgaris | | |
| 12.2. Persistence and degradability: | | 14d | 63 | % | | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) | |
| 12.2. Persistence and degradability: | BOD/COD | | >60 | % | | | |
| 12.2. Persistence and degradability: | BOD5/COD | | > 50 | % | | | |
| 12.2. Persistence and degradability: | DOC | | >70 | % | | | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -1,75 | | | OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method) | Bioaccumulation is unlikely (LogPow < 1). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC5 | 16h | > 10000 | mg/l | Pseudomonas putida | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|-----------|------|---------|------|------------------------------|--|--|
| 12.1. Toxicity to fish: | LC50 | 96h | 218,6 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 48h | >0,135 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | EC50 | | >100 | mg/l | Daphnia magna | | |
| 12.3. Bioaccumulative potential: | | | | | | | Not to be expected |
| 12.1. Toxicity to algae: | EC50 | | >100 | mg/l | Selenastrum capricornutum | | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >=0,052 | mg/l | Selenastrum capricornutum | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | | | | | Inorganic products cannot be eliminated from water through biological purification methods. |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No vPvB substance |



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13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no .:

| The waste codes are recommendations based on the scheduled use of this product. |
|--|
| Owing to the user's specific conditions for use and disposal, other waste codes may be |
| allocated under certain circumstances. (2014/955/EU) |
| 12 01 20 spent grinding bodies and grinding materials containing hazardous substances |
| 12 01 09 machining emulsions and solutions free of halogens |
| Recommendation: |
| Sewage disposal shall be discouraged. |
| Pay attention to local and national official regulations. |
| E.g. suitable incineration plant. |
| E.g. dispose at suitable refuse site. |
| For contaminated packing material |
| Pay attention to local and national official regulations. |
| 15 01 01 paper and cardboard packaging |
| 15 01 02 plastic packaging |
| 15 01 04 metallic packaging |
| Empty container completely. |
| Uncontaminated packaging can be recycled. |
| Dispose of packaging that cannot be cleaned in the same manner as the substance. |
| |

SECTION 14: Transport information

General statements 14.1. UN number or ID number: n.a. Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Classification code: n.a. LQ: n.a. 14.5. Environmental hazards: Not applicable Tunnel restriction code: Transport by sea (IMDG-code) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Marine Pollutant: n.a Not applicable 14.5. Environmental hazards: Transport by air (IATA) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n a Not applicable 14.5. Environmental hazards: 14.6. Special precautions for user Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

| SECTION 15: Regulatory information |
|------------------------------------|
|------------------------------------|

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

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

10 %



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SECTION 16: Other information

Revised sections:

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2.2, 5, 8, 9, 11, 12, 15

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

Asp. Tox. — Aspiration hazard

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended. Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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Any abbreviations and acronyms used in this document:



(GB) Page 16 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 13.07.2022 / 0020 Replacing version dated / version: 07.01.2022 / 0019 Valid from: 13.07.2022 PDF print date: 13.07.2022 Refinish Universal Polish P336 1000 ml Art.: 6100 1734, Art.: 6104 1734 Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BSEF The International Bromine Council bw body weight CAS Chemical Abstracts Service CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level Dissolved organic carbon DOC dry weight dw for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances EN **European Norms** FPA United States Environmental Protection Agency (United States of America) $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) et cetera etc. EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general ĞHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient Kow IARC International Agency for Research on Cancer International Air Transport Association ΙΑΤΑ IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Logarithm of octanol-water partition coefficient Log Kow, Log Pow Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. n.av. not available not checked n.c. no data available n.d.a. NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic PE Polyethylene PNEC Predicted No Effect Concentration



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parts per million ppm PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Tel. Telephone TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by

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