Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 11.10.2023

Version number 4 (replaces version 3)

Revision: 11.10.2023

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

· 1.1 Product identifier

• Trade name: Härter PS (AP-Merit 2K-Hardener for Polyester-Filler 7534)

• 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

• Application of the substance / the mixture Hardening agent/ Curing agent

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: Unicolor AG Alte Landstrasse 63 CH-8500 Frauenfeld Tel. +41(0)52/723 21 58 e-mail: info@unicolor-ag.ch www.unicolor.com
1.4 Emergency telephone number: Toxikologische Informationszentrum in Zürich: Kurzwahl 145

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 2H225Highly flammable liquid and vapour.Org. Perox. DH242Heating may cause a fire.

Corrosion

Skin Corr. 1BH314Causes severe skin burns and eye damage.Eye Dam. 1H318Causes serious eye damage.



STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation. • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labelling:

Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane Ethyl acetate cyclohexanone peroxide(s) • Hazard statements

H225 Highly flammable liquid and vapour.H242 Heating may cause a fire.

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| (Contd. of page 1) | |
|---|-------------|
| H314 Causes severe skin burns and eye damage. | H314 |
| H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. | Н335-Н. |
| Precautionary statements | · Precauti |
| P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. | P210 |
| P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. | P303+P. |
| P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | P305+P. |
| P310 Immediately call a POISON CENTER/doctor. | P310 |
| P321 Specific treatment (see on this label). | P321 |
| P410 Protect from sunlight. | P410 |
| Additional information: | · Addition |
| EUH066 Repeated exposure may cause skin dryness or cracking. | EUH066 |
| 2.3 Other hazards | · 2.3 Othe |
| Results of PBT and vPvB assessment | · Results o |

· **PBT:** Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

| · Dangerous components: | | |
|---|--|----------|
| CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46 | Ethyl acetate Flam. Liq. 2, H225; (1) Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | 25-50% |
| CAS: 1338-23-4 EC number: 700-954-4 Reg.nr.: 01-2119514691-43 | Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec- butylhexaoxidane Org. Perox. D, H242; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332 | 10-25% |
| CAS: 131-11-3 EINECS: 205-011-6 Reg.nr.: 01-2119437229-36 | dimethyl phthalate substance with a Community workplace exposure limit | 2.5-<10% |
| CAS: 12262-58-7 EINECS: 235-527-7 Reg.nr.: 02-2119716628-32 | cyclohexanone peroxide(s) \bigcirc Org. Perox. C, H242; \bigcirc Skin Corr. 1B, H314; Eye Dam. 1, H318; \bigcirc Acute Tox. 4, H302; Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; H335: $C \ge 5$ % | ≥5-<10% |
| CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43 | Methyl ethyl ketone Flam. Liq. 2, H225; (1) Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | <1% |
| • Additional information: For | r the wording of the listed hazard phrases refer to section 16. | |

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact: Immediately rinse with water.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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• 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:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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

Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.*
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- Storage class: 5.2
- 7.3 Specific end use(s) No further relevant information available.

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| | ontrol parameters |
|---|---|
| - | dients with limit values that require monitoring at the workplace: |
| | 8-6 Ethyl acetate |
| WEL | Short-term value: 1468 mg/m ³ , 400 ppm |
| 1000 | Long-term value: 734 mg/m ³ , 200 ppm |
| | 23-4 Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane |
| | Short-term value: 1.5 mg/m ³ , 0.2 ppm |
| | 1-3 dimethyl phthalate |
| | Short-term value: 10 mg/m ³ |
| | Long-term value: 5 mg/m ³ |
| | -3 Methyl ethyl ketone |
| WEL | Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm |
| | Sk, BMGV |
| Ingre | dients with biological limit values: |
| - | -3 Methyl ethyl ketone |
| | 70 μmol/L |
| | Medium: urine |
| | Sampling time: post shift |
| | Parameter: butan-2-one |
| Keep Immed Wash Avoid Avoid Respi Filter | <i>ral protective and hygienic measures:</i> away from foodstuffs, beverages and feed. diately remove all soiled and contaminated clothing hands before breaks and at the end of work. contact with the eyes. contact with the eyes and skin. <i>ratory protection:</i> A/P2 (EN 141, EN 143) In case of brief exposure or low pollution use respiratory filter device. In case of intensive longer exposure use self-contained respiratory protective device. |
| 110100 | protection |
| | protection |
| | Protective gloves (EN 374) |

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• **Breakthrough time of glove material** Value for the permeation: Level ≤ 4 • **Eye/face protection**

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Tightly sealed goggles

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SECTION 9: Physical and chemical properties

| General InformationPhysical stateFluidColour:According to product specificationOdour:CharacteristicOdour threshold:Not determined.Melting point/freezing point:Undetermined.Boiling point or initial boiling point and boiling |
|--|
| · Colour:According to product specification· Odour:Characteristic· Odour threshold:Not determined.· Melting point/freezing point:Undetermined. |
| • Odour: Characteristic • Odour threshold: Not determined. • Melting point/freezing point: Undetermined. |
| • Odour threshold: Not determined. • Melting point/freezing point: Undetermined. |
| • Melting point/freezing point: Undetermined. |
| |
| Boiling point or initial boiling point and boiling |
| |
| range 77-78 °C (141-78-6 Ethyl acetate) |
| • Flammability May cause fire. |
| Highly flammable. |
| · Lower and upper explosion limit |
| • Lower: 2.1 Vol % (141-78-6 Ethyl acetate) |
| • Upper: 11.5 Vol % (141-78-6 Ethyl acetate) |
| • Flash point: 2 °C (DIN 53213) |
| • Auto-ignition temperature: 460 °C (DIN 51794, 141-78-6 Ethyl acetate) |
| • Decomposition temperature: Not determined. |
| • pH Not determined. |
| · Viscosity: |
| Kinematic viscosity Not determined. |
| Dynamic at 20 °C: 38 mPas |
| Solubility |
| water: Not miscible or difficult to mix. |
| • Partition coefficient n-octanol/water (log value) Not determined. |
| • Vapour pressure at 20 °C: 97 hPa (141-78-6 Ethyl acetate) |
| Vapour pressure at 50 °C: 360 hPa |
| Density and/or relative density |
| Density at 20 °C: 1.009 g/cm ³ (DIN 53217) |
| Relative density Not determined. |
| · Vapour density Not determined. |
| · 9.2 Other information |
| · Appearance: |
| Form: Fluid |
| · Important information on protection of health and |
| environment, and on safety. |
| Ignition temperature: Product is not selfigniting. |
| • Explosive properties: Product is not explosive. However, formatio |
| explosive air/vapour mixtures are possible. |
| Solvent content: |
| · VOC (EC) 45.90 % |
| Solids content (weight-%): 26.6 % |
| · Change in condition |
| • Evaporation rate Not determined. |
| (Contd. on p |

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| | | (Contd. of page |
|--|-------------------------------------|-----------------|
| · Information with regard to physical hazard c | elasses | |
| • Explosives | Void | |
| Flammable gases | Void | |
| Aerosols | Void | |
| Oxidising gases | Void | |
| Gases under pressure | Void | |
| Flammable liquids | Highly flammable liquid and vapour. | |
| Flammable solids | Void | |
| Self-reactive substances and mixtures | Void | |
| Pyrophoric liquids | Void | |
| Pyrophoric solids | Void | |
| Self-heating substances and mixtures | Void | |
| Substances and mixtures, which emit flamme | able | |
| gases in contact with water | Void | |
| Oxidising liquids | Void | |
| Oxidising solids | Void | |
| · Organic peroxides | Heating may cause a fire. | |
| · Corrosive to metals | Void | |
| · Desensitised explosives | Void | |

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 if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous 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: Carbon monoxide

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation Causes serious eye damage.
- · STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.
- \cdot 11.2 Information on other hazards

· Endocrine disrupting properties

78-93-3 Methyl ethyl ketone

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information 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.
- **vPvB:** Not applicable.

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List II

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• 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

 \cdot Additional ecological information:

· General notes:

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Water hazard class 1 (German Regulation) : slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

| SECTION 14: Transport information | | |
|--|---|--|
| · 14.1 UN number or ID number · ADR, IMDG, IATA | UN3105 | |
| · 14.2 UN proper shipping name · ADR | UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (methyl ethyl ketone peroxide(s), cyclohexanone peroxide(s)) | |
| · IMDG, IATA | ORGANIC PEROXIDE TYPE D, LIQUID (methyl ethyl ketone peroxide(s), cyclohexanone peroxide(s)) | |
| · 14.3 Transport hazard class(es) | | |
| ADR | | |
| <u></u> | | |
| · Class · Label | 5.2 (P1) Organic peroxides. 5.2 | |
| · IMDG, IATA | | |
| Class | 5.2 Organic peroxides. | |
| · Label | 5.2 | |
| · 14.4 Packing group · ADR, IMDG, IATA | Void | |
| · 14.5 Environmental hazards: · Marine pollutant: | No | |
| 14.6 Special precautions for user | Warning: Organic peroxides. | |
| Hazard identification number (Kemler code): EMS Number: | - F-J,S-R | |
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| | (Contd. of page 7 |
|---|---|
| · Stowage Category · Stowage Code · Segregation Code | D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2. |
| • 14.7 Maritime transport in bulk according to instruments | o IMO Not applicable. |
| · Transport/Additional information: | |
| · ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code | 125 ml 2 D |
| · IMDG · Limited quantities (LQ) | 125 ml |
| · UN "Model Regulation": | UN 3105 ORGANIC PEROXIDE TYPE D, LIQUIE (METHYL ETHYL KETONE PEROXIDE(S) CYCLOHEXANONE PEROXIDE(S)), 5.2 |

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 is listed.

- Seveso category P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

· National regulations:

· Additional classification according to Decree on Hazardous Materials, Annex II:

ClassShare in %NK25-50

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H242 Heating may cause a fire.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- *H412 Harmful to aquatic life with long lasting effects.*

EUH066 Repeated exposure may cause skin dryness or cracking.

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(Contd. of page 8) · Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2 Org. Perox. C: Organic peroxides - Type C/D Org. Perox. D: Organic peroxides - Type C/D Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 * * Data compared to the previous version altered.