

**Safety Data Sheet**  
**REGULATORY REACH 878/2020/CE**  
**923.AS90 CLEAR HS ANTISCRATCH**



**Safety Data Sheet dated 25/9/2024, version 29**

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

1.1. Product identifier

Mixture identification:

Trade name : CLEAR HS ANTISCRATCH

Trade code : 923.AS90

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

Product type and use: Painting product for car refinish and industrial job-professional use-

1.3. Details of the supplier of the safety data sheet

Supplier:

PALINI VERNICI S.R.L. Via San Gerolamo,14 25055 Pisogne (BS)

PALINI VERNICI S.R.L. Tel.+390364/880496- 882727 Fax.+390364/882740-87722 (9-12 13-18)

Competent person responsible for the safety data sheet:

ricerca@palinal.com

1.4. Emergency telephone number

PALINI VERNICI S.R.L. Tel.+390364/880496- 882727 Fax.+390364/882740-87722 (9-12 13-18)

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**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

- ⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.
- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
- ⚠ Warning, Skin Sens. 1A, May cause an allergic skin reaction.
- ⚠ Warning, STOT SE 3, May cause respiratory irritation.
- ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
- ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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P261 Avoid breathing vapours.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

**P403+P235 Store in a well-ventilated place. Keep cool.**

None

xylene

2-methoxy-1-methylethyl acetate

2,3-epoxypropyl neodecanoate

: May produce an allergic

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

al provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

No other hazards

### SECTION 3: Composition/information on ingredients

## N.A.

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty                | Name                                                                              | Ident. Number                                                                                 | Classification                                                                                                                                                                                                                                                |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| >=15% -<br>< 20%   | xylene                                                                            | Index number: 601-022-00-9<br>CAS: 1330-20-7<br>EC: 215-535-7<br>REACH No.: 01-2119488216-32  | 2.6/3 Flam. Liq. 3 H226<br>4.1/C3 Aquatic Chronic 3 H412<br>3.1/4/Dermal Acute Tox. 4 H312<br>3.1/4/Inhal Acute Tox. 4 H332<br>3.2/2 Skin Irrit. 2 H315<br>3.3/2 Eye Irrit. 2 H319<br>3.8/3 STOT SE 3 H335<br>3.10/1 Asp. Tox. 1 H304<br>3.9/2 STOT RE 2 H373 |
| >=10% -<br>< 12,5% | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | Index number: 649-356-00-4<br>CAS: 64742-95-6<br>EC: 265-199-0<br>REACH No.: 01-2119455851-35 | 2.6/3 Flam. Liq. 3 H226<br>3.8/3 STOT SE 3 H335<br>3.8/3 STOT SE 3 H336<br>3.10/1 Asp. Tox. 1 H304<br>4.1/C2 Aquatic Chronic 2 H411<br>DECLP (CLP)*                                                                                                           |
| >=7% -< 10%        | 2-methoxy-1-methylethyl acetate                                                   | Index number: 607-195-00-7<br>CAS: 108-65-6                                                   | 2.6/3 Flam. Liq. 3 H226<br>3.8/3 STOT SE 3 H336                                                                                                                                                                                                               |

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|                  |                                                                                                                        |                                                                                             |                                                                                                                                                       |
|------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                                                                                                                        | EC: 203-603-9<br>REACH No.: 01-2119475791-29                                                |                                                                                                                                                       |
| >=7% -< 10%      | n-butyl acetate                                                                                                        | Index number: 607-025-00-1<br>CAS: 123-86-4<br>EC: 204-658-1<br>REACH No.: 01-2119485493-29 | 2.6/3 Flam. Liq. 3 H226<br>3.8/3 STOT SE 3 H336                                                                                                       |
| >=5% -< 7%       | ethylbenzene                                                                                                           | Index number: 601-023-00-4<br>CAS: 100-41-4<br>EC: 202-849-4<br>REACH No.: 01-2119489370-35 | 2.6/2 Flam. Liq. 2 H225<br>4.1/C3 Aquatic Chronic 3 H412<br>3.1/4/Inhal Acute Tox. 4 H332<br>3.10/1 Asp. Tox. 1 H304<br>3.9/2 STOT RE 2 H373          |
| >=0,5% - < 1%    | 2,3-epoxypropyl neodecanoate                                                                                           | CAS: 26761-45-5<br>EC: 247-979-2<br>REACH No.: 01-2119431597-33                             | 3.4.2/1 Skin Sens. 1 H317<br>3.5/2 Muta. 2 H341<br>4.1/C2 Aquatic Chronic 2 H411                                                                      |
| >=0,25% -< 0,5%  | Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | CAS: 1065336-91-5<br>REACH No.: 01-2119491304-40                                            | 3.4.2/1A Skin Sens. 1A H317<br>4.1/A1 Aquatic Acute 1 H400<br>4.1/C1 Aquatic Chronic 1 H410                                                           |
| >=0,1% - < 0,25% | toluene                                                                                                                | Index number: 601-021-00-3<br>CAS: 108-88-3<br>EC: 203-625-9<br>REACH No.: 01-2119471310-51 | 2.6/2 Flam. Liq. 2 H225<br>3.2/2 Skin Irrit. 2 H315<br>3.8/3 STOT SE 3 H336<br>3.10/1 Asp. Tox. 1 H304<br>3.7/2 Repr. 2 H361d<br>3.9/2 STOT RE 2 H373 |
| >=0,1% - < 0,25% | 1-methoxy-2-propanol; monopropylene glycol methyl ether                                                                | Index number: 603-064-00-3<br>CAS: 107-98-2<br>EC: 203-539-1<br>REACH No.: 01-2119457435-35 | 2.6/3 Flam. Liq. 3 H226<br>3.8/3 STOT SE 3 H336                                                                                                       |

\*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard

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classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

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#### **SECTION 4: First aid measures**

##### **4.1. Description of first aid measures**

###### **In case of skin contact:**

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

###### **In case of eyes contact:**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

###### **In case of Ingestion:**

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

###### **In case of Inhalation:**

In case of inhalation, consult a doctor immediately and show him packing or label.

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

No data available

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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#### **SECTION 5: Firefighting measures**

##### **5.1. Extinguishing media**

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

##### **5.2. Special hazards arising from the substance or mixture**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

##### **5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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#### **SECTION 6: Accidental release measures**

##### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

##### **6.2. Environmental precautions**

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Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

### 7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store between 5 and 35°C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

xylene - CAS: 1330-20-7

National - TWA: 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Notes: pelle

EU - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

EU - TWA(8h): 275 mg/m<sup>3</sup>, 50 ppm - STEL: 550 mg/m<sup>3</sup>, 100 ppm - Notes: Skin

n-butyl acetate - CAS: 123-86-4

ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

EU - TWA(8h): 241 mg/m<sup>3</sup>, 50 ppm - STEL: 723 mg/m<sup>3</sup>, 150 ppm

ethylbenzene - CAS: 100-41-4

EU - TWA(8h): 442 mg/m<sup>3</sup>, 100 ppm - STEL: 884 mg/m<sup>3</sup>, 200 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair

toluene - CAS: 108-88-3

EU - TWA(8h): 192 mg/m<sup>3</sup>, 50 ppm - STEL: 384 mg/m<sup>3</sup>, 100 ppm - Notes: Skin

10 - TWA(8h): 192 mg/m<sup>3</sup>, 50 ppm - STEL: 384 mg/m<sup>3</sup>, 100 ppm - Notes: pelle 15 min.

ACGIH - TWA(8h): 20 ppm - Notes: OTO; A4; BEI - CNS, visual & hearing impair; female repro system eff; pregnancy loss

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1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2  
National - TWA: 375 mg/m<sup>3</sup>, 100 ppm - STEL: 568 mg/m<sup>3</sup>, 150 ppm - Notes: pelle  
EU - TWA(8h): 375 mg/m<sup>3</sup>, 100 ppm - STEL: 563 mg/m<sup>3</sup>, 150 ppm - Notes: Skin  
ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr

#### DNEL Exposure Limit Values

xylene - CAS: 1330-20-7

Worker Professional: 3182 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 442 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 221 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 221 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, local effects

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified - CAS: 64742-95-6

Worker Professional: 25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 150 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 32 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4

Worker Professional: 960 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 960 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 480 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 480 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 859.7 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 859.7 mg/kg - Exposure: Human Inhalation - Frequency: Short Term (acute)

2,3-epoxypropyl neodecanoate - CAS: 26761-45-5

Worker Professional: 1.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 1.965 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5

Worker Professional: 2.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 2.35 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 2.35 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 2.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Worker Professional: 553.5 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 50.6 mg/kg - Exposure: Human Dermal - Frequency: Long Term,

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systemic effects

Worker Professional: 369 mg/kg - Exposure: Human Inhalation - Frequency: Long Term,

systemic effects

PNEC Exposure Limit Values

xylene - CAS: 1330-20-7

Target: Fresh Water - Value: 0.327 mg/l

Target: Marine water - Value: 0.327 mg/l

Target: Marine water sediments - Value: 12.46 mg/l

Target: Freshwater sediments - Value: 12.46 mg/l

Target: 09 - Value: 6.58 mg/l

Target: Soil (agricultural) - Value: 2.31 mg/kg

Target: 08 - Value: 0.327 mg/l

n-butyl acetate - CAS: 123-86-4

Target: Fresh Water - Value: 0.18 mg/l

Target: Marine water - Value: 0.018 mg/l

Target: 08 - Value: 0.36 mg/l

Target: 09 - Value: 35.6 mg/l

Target: Freshwater sediments - Value: 0.981 mg/kg

Target: Marine water sediments - Value: 0.0981 mg/kg

Target: Soil (agricultural) - Value: 0.0903 mg/kg

2,3-epoxypropyl neodecanoate - CAS: 26761-45-5

Target: Fresh Water - Value: 0.0035 mg/l

Target: Marine water - Value: 0.00035 mg/l

Target: 09 - Value: 50 mg/l

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5

Target: Fresh Water - Value: 0.0022 mg/l

Target: Marine water - Value: 0.00022 mg/l

Target: 08 - Value: 0.009 mg/l

Target: Freshwater sediments - Value: 1.05 mg/kg

Target: Marine water sediments - Value: 0.11 mg/kg

Target: Soil (agricultural) - Value: 0.21 mg/kg

Target: 09 - Value: 1 mg/l

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/l

Target: Marine water - Value: 1 mg/l

Target: 08 - Value: 100 mg/l

Target: Freshwater sediments - Value: 41.6 mg/kg

Target: Marine water sediments - Value: 4.17 mg/kg

Target: Soil (agricultural) - Value: 2.47 mg/kg

#### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment. es. CEN/FFP-2 o CEN/FFP-3

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

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None

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

| Properties                                                | Value                  | Method: | Notes: |
|-----------------------------------------------------------|------------------------|---------|--------|
| Physical state:                                           | Liquid                 | --      | --     |
| Colour:                                                   | Transparent            | --      | --     |
| Odour:                                                    | CHARACTERISTIC         | --      | --     |
| Melting point/freezing point:                             | N.A.                   | --      | --     |
| Boiling point or initial boiling point and boiling range: | > 35 gradi C.          | --      | --     |
| Flammability:                                             | Flam. Liq. 3, H226     | --      | --     |
| Lower and upper explosion limit:                          | N.A.                   | --      | --     |
| Flash point:                                              | >= 23                  | --      | --     |
| Auto-ignition temperature:                                | 400 gradi C.           | --      | --     |
| Decomposition temperature:                                | N.A.                   | --      | --     |
| pH:                                                       | Not Relevant           | --      | --     |
| Kinematic viscosity:                                      | > 20,5 mm2/sec (40 °C) | --      | --     |
| Solubility in water:                                      | Insolubile             | --      | --     |
| Solubility in oil:                                        | N.A.                   | --      | --     |
| Partition coefficient n-octanol/water (log value):        | N.A.                   | --      | --     |
| Vapour pressure:                                          | N.D.                   | --      | --     |
| Density and/or relative density:                          | 0.976 Kg/L             | --      | --     |
| Relative vapour density:                                  | >Air                   | --      | --     |
| Particle characteristics:                                 |                        |         |        |
| Particle size:                                            | N.A.                   | --      | --     |

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#### 9.2. Other information

| Properties            | Value         | Method: | Notes: |
|-----------------------|---------------|---------|--------|
| Explosive properties: | 2/11 % Volume | --      | --     |
| Solids                | 49.3          | --      | --     |
| % Volatile carbon:    | 38.8          | --      | --     |
| % Solvent             | 50.7          | --      | --     |
| Oxidizing properties: | N.D.          | --      | --     |

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## SECTION 10: Stability and reactivity

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions  
None
- 10.4. Conditions to avoid  
Stable under normal conditions.)
- 10.5. Incompatible materials  
Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products  
None.

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## SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008  
Toxicological information of the product:  
N.A.
- Toxicological information of the main substances found in the product:
  - xylene - CAS: 1330-20-7
    - a) acute toxicity:
      - Test: LC50 - Route: Inhalation - Species: Rat = 5000 Ppm - Duration: 4h
      - Test: LD50 - Route: Skin - Species: Rabbit > 1700 mg/kg
    - Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified - CAS: 64742-95-6
      - a) acute toxicity:
        - Test: LC50 - Route: Inhalation Vapour - Species: Rat > 6193 mg/m<sup>3</sup> - Duration: 4h
        - Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg
        - Test: LD50 - Route: Oral - Species: Rat 3492 mg/kg
      - b) skin corrosion/irritation:
        - Test: Eye Irritant - Species: Rabbit 100 ul/kg
        - Test: Skin Irritant - Route: Skin - Species: Rabbit
  - 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
    - a) acute toxicity:
      - Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
      - Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
      - Test: LC50 - Route: Inhalation - Species: Rat > 2000 Ppm - Duration: 2H
  - n-butyl acetate - CAS: 123-86-4
    - a) acute toxicity:

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Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 21.1 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg

ethylbenzene - CAS: 100-41-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3500 mg/kg

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 3230 mg/kg

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5580 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 12124 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 28.1 mg/l - Duration: 4h

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5660 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 9999.99 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 25.8 mg/l - Duration: 4h

xylene - CAS: 1330-20-7

OBSERVATIONS ON HUMAN SUBJECTS NON-PROFESSIONAL EXPOSURED-

Effects following acute exposure:

Symptoms of intense exposure are: dermatitis, eczema, irritation to the eyes and to the respiratory tract.

Inhaling the vapours can cause dizziness, headache, nausea, incoordination, excitability, narcosis, anaemia, and paraesthesia of the hands and feet.

PROFESSIONAL EXPOSURED- Effects following acute exposure:

Narcotic at high concentrations.

Irritation through inhalation at 200 ppm (TCLo). Inhalation of 200 ppm has irritating effects in human subjects.

Human subject (oral)(LDLo): 50 mg/kg.

Inhalatory human subject (LCLo) 10000 ppm/6h.

n-butyl acetate - CAS: 123-86-4

OBSERVATIONS ON HUMAN SUBJECTS:

Inhalation: 3300 ppm (16 mg/l), for short periods, cause serious irritation to the eyes and to the nose.

Inhalation: 200-300 ppm (1-1.4 mg/l), for short periods, cause moderate irritation to the eyes and to the nose.

Inhaling the vapours can irritate the respiratory system.

The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation.

Symptoms of illness at 500 ppm. Serious toxic effects at 2,000 ppm for 60 min.

TCLo: 200 ppm

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

a) acute toxicity;

b) skin corrosion/irritation;

c) serious eye damage/irritation;

d) respiratory or skin sensitisation;

e) germ cell mutagenicity;

f) carcinogenicity;

g) reproductive toxicity;

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- h) STOT-single exposure;
  - i) STOT-repeated exposure;
  - j) aspiration hazard.
- 11.2. Information on other hazards
- Endocrine disrupting properties:
- No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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#### SECTION 12: Ecological information

- 12.1. Toxicity
- Adopt sound working practices, so that the product is not released into the environment.
- xylene - CAS: 1330-20-7
- a) Aquatic acute toxicity:
- Endpoint: EC50 - Species: Algae = 21 mg/l - Duration h: 96
  - Endpoint: EC50 - Species: Daphnia = 29 mg/l - Duration h: 96
  - Endpoint: EC50 - Species: Fish = 35 mg/l - Duration h: 96
  - Endpoint: LC50 - Species: Daphnia = 165 mg/l - Duration h: 24
- Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified - CAS: 64742-95-6
- a) Aquatic acute toxicity:
- Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48
  - Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96
- n-butyl acetate - CAS: 123-86-4
- e) Plant toxicity:
- Endpoint: EC50 - Species: Algae = 675 mg/l - Duration h: 72
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
- a) Aquatic acute toxicity:
- Endpoint: EC50 - Species: Fish > 100 mg/l
  - Endpoint: EC50 - Species: Algae > 100 mg/l
  - Endpoint: LC50 - Species: Fish > 100 mg/l
  - Endpoint: LC50 - Species: Algae > 100 mg/l
  - Endpoint: LC50 - Species: Fish = 6812 mg/l - Duration h: 96
  - Endpoint: EC50 - Species: Daphnia 21000-25900 mg/l - Duration h: 48
  - Endpoint: LC50 - Species: Algae > 1000 mg/l - Duration h: 168
- 12.2. Persistence and degradability
- None
- N.A.
- 12.3. Bioaccumulative potential
- N.A.
- 12.4. Mobility in soil
- N.A.
- 12.5. Results of PBT and vPvB assessment
- vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
- No endocrine disruptor substances present in concentration  $\geq 0.1\%$
- 12.7. Other adverse effects
- None

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#### SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
- Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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#### SECTION 14: Transport information

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- 14.1. UN number or ID number  
 ADR-UN Number: 1263  
 IATA-UN Number: 1263  
 IMDG-UN Number: 1263
- 14.2. UN proper shipping name  
 ADR-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)  
 IATA-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)  
 IMDG-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)
- 14.3. Transport hazard class(es)  
 ADR-Class: 3  
 ADR - Hazard identification number: 30  
 IATA-Class: 3  
 IATA-Label: 3  
 IMDG-Class: 3
- 14.4. Packing group  
 ADR-Packing Group: III  
 IATA-Packing group: III  
 IMDG-Packing group: III
- 14.5. Environmental hazards  
 ADR-Environmental Pollutant: NO  
 IMDG-Marine pollutant: NO  
 IMDG-EmS: F-E, S-E
- 14.6. Special precautions for user  
 ADR-Subsidiary hazards: -  
 ADR-S.P.: 163 367 640E 650  
 ADR-Transport category (Tunnel restriction code): 3 (D/E)  
 IATA-Passenger Aircraft: 355  
 IATA-Subsidiary hazards: -  
 IATA-Cargo Aircraft: 366  
 IATA-S.P.: A3 A72 A192  
 IATA-ERG: 3L  
 IMDG-Subsidiary hazards: -  
 IMDG-Stowage and handling: Category A  
 IMDG-Segregation: -
- 14.7. Maritime transport in bulk according to IMO instruments  
 N.A.

## SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
 Dir. 98/24/EC (Risks related to chemical agents at work)  
 Dir. 2000/39/EC (Occupational exposure limit values)  
 Regulation (EC) n. 1907/2006 (REACH)  
 Regulation (EC) n. 1272/2008 (CLP)  
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

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Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: 878/2020

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 28

Restriction 29

Restriction 48

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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## SECTION 16: Other information

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H225 Highly flammable liquid and vapour.

H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure.

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H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H361d Suspected of damaging the unborn child.

| Hazard class and hazard category | Code         | Description                                                    |
|----------------------------------|--------------|----------------------------------------------------------------|
| Flam. Liq. 2                     | 2.6/2        | Flammable liquid, Category 2                                   |
| Flam. Liq. 3                     | 2.6/3        | Flammable liquid, Category 3                                   |
| Acute Tox. 4                     | 3.1/4/Dermal | Acute toxicity (dermal), Category 4                            |
| Acute Tox. 4                     | 3.1/4/Inhal  | Acute toxicity (inhalation), Category 4                        |
| Asp. Tox. 1                      | 3.10/1       | Aspiration hazard, Category 1                                  |
| Skin Irrit. 2                    | 3.2/2        | Skin irritation, Category 2                                    |
| Eye Irrit. 2                     | 3.3/2        | Eye irritation, Category 2                                     |
| Skin Sens. 1                     | 3.4.2/1      | Skin Sensitisation, Category 1                                 |
| Skin Sens. 1A                    | 3.4.2/1A     | Skin Sensitisation, Category 1A                                |
| Muta. 2                          | 3.5/2        | Germ cell mutagenicity, Category 2                             |
| Repr. 2                          | 3.7/2        | Reproductive toxicity, Category 2                              |
| STOT SE 3                        | 3.8/3        | Specific target organ toxicity - single exposure, Category 3   |
| STOT RE 2                        | 3.9/2        | Specific target organ toxicity - repeated exposure, Category 2 |
| Aquatic Acute 1                  | 4.1/A1       | Acute aquatic hazard, category 1                               |
| Aquatic Chronic 1                | 4.1/C1       | Chronic (long term) aquatic hazard, category 1                 |
| Aquatic Chronic 2                | 4.1/C2       | Chronic (long term) aquatic hazard, category 2                 |
| Aquatic Chronic 3                | 4.1/C3       | Chronic (long term) aquatic hazard, category 3                 |

Paragraphs modified from the previous revision:

#### SECTION 9: Physical and chemical properties

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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| <b>Classification according to Regulation (EC) Nr. 1272/2008</b> | <b>Classification procedure</b> |
|------------------------------------------------------------------|---------------------------------|
| Flam. Liq. 3, H226                                               | On basis of test data           |
| Skin Irrit. 2, H315                                              | Calculation method              |
| Eye Irrit. 2, H319                                               | Calculation method              |
| Skin Sens. 1A, H317                                              | Calculation method              |
| STOT SE 3, H335                                                  | Calculation method              |
| STOT SE 3, H336                                                  | Calculation method              |
| STOT RE 2, H373                                                  | Calculation method              |
| Aquatic Chronic 3, H412                                          | Calculation method              |

This document was prepared by a competent person who has received appropriate training.  
Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
PNEC: Predicted No Effect Concentration.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

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|       |                                 |
|-------|---------------------------------|
| STEL: | Short Term Exposure limit.      |
| STOT: | Specific Target Organ Toxicity. |
| TLV:  | Threshold Limiting Value.       |
| TWA:  | Time-weighted average           |
| WGK:  | German Water Hazard Class.      |