

## SAFETY DATA SHEET

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

#### 1.1. Product identifier

**Trade name or designation of the mixture** HumiSeal Thinner 503

**Registration number** -

**Synonyms** None.

**Product code** EC0000-71

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

**Identified uses** Protective Coating Thinner for Printed Circuit Board

**Uses advised against** No other uses are advised.

#### 1.3. Details of the supplier of the safety data sheet

**Manufacturer/Supplier** HUMISEAL EUROPE LIMITED

**Address**  
HumiSeal  
505 Eskdale Road  
Winnersh  
Wokingham, Berkshire  
RG41 5TU  
UK

**Telephone** General Assistance: +44 (0) 118 944 2333

**E-mail** europetechsupport@chasecorp.com

**Emergency telephone number** Chemtrec UK: +44 (0) 870 820 0418

**EU Address** HUMISEAL EUROPE SARL

**Address**  
HumiSeal Europe SARL  
4-6 Avenue Eiffel  
CARRIERES SUR SEINE  
Île-de-France  
78420  
France

**Telephone** +33 130098686

**E-mail** europetechsupport@chasecorp.com

**Emergency telephone number** Chemtrec UK: +44 (0) 870 820 0418

#### 1.4. Emergency telephone number

**General in EU** 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Tox Info Suisse** 145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

|                   |            |                                            |
|-------------------|------------|--------------------------------------------|
| Flammable liquids | Category 2 | H225 - Highly flammable liquid and vapour. |
|-------------------|------------|--------------------------------------------|

##### Health hazards

|                                                    |                             |                                                                           |
|----------------------------------------------------|-----------------------------|---------------------------------------------------------------------------|
| Skin corrosion/irritation                          | Category 2                  | H315 - Causes skin irritation.                                            |
| Serious eye damage/eye irritation                  | Category 2                  | H319 - Causes serious eye irritation.                                     |
| Reproductive toxicity (the unborn child)           | Category 2                  | H361d - Suspected of damaging the unborn child.                           |
| Specific target organ toxicity - single exposure   | Category 3 narcotic effects | H336 - May cause drowsiness or dizziness.                                 |
| Specific target organ toxicity - repeated exposure | Category 2                  | H373 - May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard                                  | Category 1                  | H304 - May be fatal if swallowed and enters airways.                      |

##### Environmental hazards

|                                                                |            |                                                           |
|----------------------------------------------------------------|------------|-----------------------------------------------------------|
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 3 | H412 - Harmful to aquatic life with long lasting effects. |
|----------------------------------------------------------------|------------|-----------------------------------------------------------|

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Butanone, Toluene

##### Hazard pictograms



##### Signal word

Danger

##### Hazard statements

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| H225  | Highly flammable liquid and vapour.                                |
| H304  | May be fatal if swallowed and enters airways.                      |
| H315  | Causes skin irritation.                                            |
| H319  | Causes serious eye irritation.                                     |
| H336  | May cause drowsiness or dizziness.                                 |
| H361d | Suspected of damaging the unborn child.                            |
| H373  | May cause damage to organs through prolonged or repeated exposure. |
| H412  | Harmful to aquatic life with long lasting effects.                 |

##### Precautionary statements

###### Prevention

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P235 | Keep cool.                                                                                     |
| P260 | Do not breathe mist/vapours.                                                                   |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  |

###### Response

|             |                                                        |
|-------------|--------------------------------------------------------|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTRE/doctor. |
| P331        | Do NOT induce vomiting.                                |
| P370 + P378 | In case of fire: Use appropriate media to extinguish.  |

###### Storage

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

###### Disposal

Not available.

##### Supplemental label information

EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name                                                                                                                                         | %         | CAS-No. / EC No.      | REACH Registration No. | Index No.    | Notes |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|------------------------|--------------|-------|
| Toluene                                                                                                                                               | 60 - < 70 | 108-88-3<br>203-625-9 | 01-2119471310-51       | 601-021-00-3 | #     |
| <b>Classification:</b> Flam. Liq. 2;H225, Skin Irrit. 2;H315, Repr. 2;H361d, STOT SE 3;H336, STOT RE 2;H373, Asp. Tox. 1;H304, Aquatic Chronic 3;H412 |           |                       |                        |              |       |
| Butanone                                                                                                                                              | 30 - < 40 | 78-93-3<br>201-159-0  | 01-2119457290-43       | 606-002-00-3 | #     |
| <b>Classification:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336                                                                           |           |                       |                        |              |       |
| <b>Supplemental Hazard EUH066</b>                                                                                                                     |           |                       |                        |              |       |
| <b>Statement(s):</b>                                                                                                                                  |           |                       |                        |              |       |

#### List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Composition comments

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### 4.1. Description of first aid measures

##### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.

##### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

##### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

##### Ingestion

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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

Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

#### General fire hazards

Highly flammable liquid and vapour.

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

##### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

#### 5.3. Advice for firefighters

##### Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

##### Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

#### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

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

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.                                                                                                                                                                                                                                           |
| <b>For emergency responders</b>    | Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS. |

**6.2. Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities** Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances  
Hazard categories in accordance with Regulation (EC) No 1272/2008  
- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tonnes; Upper-tier requirements = 200 tonnes)

**7.3. Specific end use(s)** Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

| Components             | Type | Value     |
|------------------------|------|-----------|
| Butanone (CAS 78-93-3) | STEL | 590 mg/m3 |
|                        |      | 200 ppm   |
|                        | TWA  | 590 mg/m3 |
|                        |      | 200 ppm   |
| Toluene (CAS 108-88-3) | STEL | 760 mg/m3 |
|                        |      | 200 ppm   |
|                        | TWA  | 190 mg/m3 |
|                        |      | 50 ppm    |

| Components             | Type | Value                 |
|------------------------|------|-----------------------|
| Butanone (CAS 78-93-3) | STEL | 900 mg/m <sup>3</sup> |
|                        |      | 300 ppm               |
|                        | TWA  | 600 mg/m <sup>3</sup> |
| Toluene (CAS 108-88-3) | STEL | 200 ppm               |
|                        |      | 384 mg/m <sup>3</sup> |
|                        | TWA  | 100 ppm               |
|                        |      | 192 mg/m <sup>3</sup> |
|                        |      | 50 ppm                |

**Biological limit values****Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte**

| Components             | Value    | Determinant     | Specimen            | Sampling Time |
|------------------------|----------|-----------------|---------------------|---------------|
| Butanone (CAS 78-93-3) | 2 mg/l   | 2-Butanon (MEK) | Urine               | *             |
| Toluene (CAS 108-88-3) | 75 µg/l  | Toluol          | Urine               | *             |
|                        | 600 µg/l | Toluol          | Blood               | *             |
|                        | 2 g/g    | Hippursäure     | Creatinine in urine | *             |
|                        | 0,5 mg/l | o-Kresol        | Urine               | *             |

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines****Switzerland SUVA Limit Values at the Workplace: Skin designation**

|                        |                                   |
|------------------------|-----------------------------------|
| Butanone (CAS 78-93-3) | Can be absorbed through the skin. |
| Toluene (CAS 108-88-3) | Can be absorbed through the skin. |

**8.2. Exposure controls**

**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment**

|                               |                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b>    | Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. |
| <b>Eye/face protection</b>    | Chemical respirator with organic vapour cartridge and full facepiece.                                                                                                                                  |
| <b>Skin protection</b>        |                                                                                                                                                                                                        |
| <b>- Hand protection</b>      | Wear appropriate chemical resistant gloves.                                                                                                                                                            |
| <b>- Other</b>                | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.                                                                                                               |
| <b>Respiratory protection</b> | Chemical respirator with organic vapour cartridge and full facepiece.                                                                                                                                  |
| <b>Thermal hazards</b>        | Not applicable.                                                                                                                                                                                        |

**Hygiene measures** Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Material name: HumiSeal Thinner 503

EC0000-71 Version #: 10 Revision date: 09-April-2024 Issue date: 11-June-2015

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|                                                                 |                                 |
|-----------------------------------------------------------------|---------------------------------|
| <b>Physical state</b>                                           | Liquid.                         |
| <b>Form</b>                                                     | Liquid.                         |
| <b>Colour</b>                                                   | Not available.                  |
| <b>Odour</b>                                                    | Not available.                  |
| <b>Melting point/freezing point</b>                             | -94,9 °C (-138,82 °F) estimated |
| <b>Boiling point or initial boiling point and boiling range</b> | 79,59 °C (175,26 °F) estimated  |
| <b>Flammability</b>                                             | Not applicable.                 |
| <b>Upper/lower flammability or explosive limits</b>             |                                 |
| Explosive limit - lower ( %)                                    | 1,27 % estimated                |
| Explosive limit – upper (%)                                     | 11,4 % estimated                |
| <b>Flash point</b>                                              | -6,0 °C (21,2 °F) estimated     |
| <b>Auto-ignition temperature</b>                                | 480 °C (896 °F) estimated       |
| <b>Decomposition temperature</b>                                | Not available.                  |
| <b>pH</b>                                                       | Not available.                  |
| <b>Kinematic viscosity</b>                                      | Not available.                  |
| <b>Solubility</b>                                               |                                 |
| Solubility (water)                                              | Not available.                  |
| <b>Partition coefficient (n-octanol/water) (log value)</b>      | Not available.                  |
| <b>Vapour pressure</b>                                          | 59,8 hPa estimated              |
| <b>Density and/or relative density</b>                          |                                 |
| Density                                                         | 0,84 g/cm3 estimated            |
| <b>Vapour density</b>                                           | Not available.                  |
| <b>Particle characteristics</b>                                 | Not available.                  |

## 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No relevant additional information available.

### 9.2.2. Other safety characteristics

|                  |                                                |
|------------------|------------------------------------------------|
| Percent volatile | 100 % estimated                                |
| Specific gravity | 0,84 estimated                                 |
| VOC              | 100 % Switzerland estimated<br>100 % estimated |

## SECTION 10: Stability and reactivity

|                                                 |                                                                                                                                                |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1. Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.                                                  |
| <b>10.2. Chemical stability</b>                 | Material is stable under normal conditions.                                                                                                    |
| <b>10.3. Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                                                                    |
| <b>10.4. Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>10.5. Incompatible materials</b>             | Strong oxidising agents. Amines. Ammonia. Caustics. Isocyanates.                                                                               |
| <b>10.6. Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                                                                                 |

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.                    |
| <b>Skin contact</b> | Causes skin irritation.                                                                                                |
| <b>Eye contact</b>  | Causes serious eye irritation.                                                                                         |
| <b>Ingestion</b>    | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |

**Symptoms** Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

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

**Acute toxicity** May be fatal if swallowed and enters airways.

| Product              | Species        | Test Results        |
|----------------------|----------------|---------------------|
| HumiSeal Thinner 503 |                |                     |
| <b>Acute</b>         |                |                     |
| <b>Dermal</b>        |                |                     |
| LD50                 | Rabbit         | 10346 mg/kg         |
| <b>Oral</b>          |                |                     |
| LD50                 | Rat            | 3,9 g/kg            |
| <b>Components</b>    | <b>Species</b> | <b>Test Results</b> |

Butanone (CAS 78-93-3)

### **Acute**

#### **Dermal**

LD50

Rabbit

8054 mg/kg

#### **Inhalation**

*Vapour*

LC50

Rat

34 mg/l, 4 hours

#### **Oral**

LD50

Rat

2193 mg/kg

2054 mg/kg

Toluene (CAS 108-88-3)

### **Acute**

#### **Dermal**

LD50

Rabbit

> 5000 mg/kg

#### **Inhalation**

*Vapour*

LC50

Rat

> 20 mg/l, 4 hours

#### **Oral**

LD50

Rat

> 5000 mg/kg

2,6 - 7,5 g/kg

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory sensitisation**

Due to partial or complete lack of data the classification is not possible.

**Skin sensitisation**

Due to partial or complete lack of data the classification is not possible.

**Germ cell mutagenicity**

Due to partial or complete lack of data the classification is not possible.

**Carcinogenicity**

Due to partial or complete lack of data the classification is not possible.

### **IARC Monographs. Overall Evaluation of Carcinogenicity**

Toluene (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity**

Suspected of damaging the unborn child.

**Specific target organ toxicity - single exposure**

May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Mixture versus substance information**

No information available.

## 11.2. Information on other hazards

**Endocrine disrupting properties**

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

**Other information**

Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

| Product              |      |         | Species                         | Test Results |
|----------------------|------|---------|---------------------------------|--------------|
| HumiSeal Thinner 503 |      |         |                                 |              |
| Aquatic              |      |         |                                 |              |
| Crustacea            | EC50 | Daphnia | 15,3135 mg/l, 48 hours          |              |
| Fish                 | LC50 | Fish    | 130,4751 mg/l, 96 hours         |              |
| Acute                |      |         |                                 |              |
| Crustacea            | EC50 | Daphnia | 5,6351 mg/l, 48 hours estimated |              |
| Fish                 | LC50 | Fish    | 8,534 mg/l, 96 hours estimated  |              |
| Components           |      |         | Species                         | Test Results |

|                        |      |                               |                     |
|------------------------|------|-------------------------------|---------------------|
| Toluene (CAS 108-88-3) |      |                               |                     |
| <b>Aquatic</b>         |      |                               |                     |
| <i>Acute</i>           |      |                               |                     |
| Crustacea              | EC50 | Invertebrates (Invertebrates) | 3,78 mg/l, 48 hours |
| Fish                   | LC50 | Fish                          | 5,5 mg/l, 96 hours  |

**12.2. Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water (log Kow)

|                        |      |
|------------------------|------|
| Butanone (CAS 78-93-3) | 0,29 |
| Toluene (CAS 108-88-3) | 2,73 |

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Endocrine disrupting properties** The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

**12.7. Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Residual waste</b>               | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).                                                                                                                         |
| <b>Contaminated packaging</b>       | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.                                                                                                                               |
| <b>EU waste code</b>                | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                                                                                                                                           |
| <b>Disposal methods/information</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Special precautions</b>          | Dispose in accordance with all applicable regulations.                                                                                                                                                                                                                                                                                   |

## SECTION 14: Transport information

### ADR

|                                         |                                                       |
|-----------------------------------------|-------------------------------------------------------|
| <b>14.1. UN number</b>                  | UN1263                                                |
| <b>14.2. UN proper shipping name</b>    | PAINT RELATED MATERIAL (TOLUENE, METHYL ETHYL KETONE) |
| <b>14.3. Transport hazard class(es)</b> |                                                       |
| Class                                   | 3                                                     |
| Subsidiary hazard                       | -                                                     |
| Label(s)                                | 3                                                     |

|                                           |                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------|
| <b>Hazard No. (ADR)</b>                   | 33                                                                      |
| <b>Tunnel restriction code</b>            | Not assigned.                                                           |
| <b>14.4. Packing group</b>                | II                                                                      |
| <b>14.5. Environmental hazards</b>        | No.                                                                     |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

#### RID

|                                           |                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------|
| <b>14.1. UN number</b>                    | UN1263                                                                  |
| <b>14.2. UN proper shipping name</b>      | PAINT RELATED MATERIAL (TOLUENE, METHYL ETHYL KETONE)                   |
| <b>14.3. Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                              | 3                                                                       |
| <b>Subsidiary hazard</b>                  | -                                                                       |
| <b>Label(s)</b>                           | 3                                                                       |
| <b>14.4. Packing group</b>                | II                                                                      |
| <b>14.5. Environmental hazards</b>        | No.                                                                     |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

#### ADN

|                                           |                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------|
| <b>14.1. UN number</b>                    | UN1263                                                                  |
| <b>14.2. UN proper shipping name</b>      | PAINT RELATED MATERIAL                                                  |
| <b>14.3. Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                              | 3                                                                       |
| <b>Subsidiary hazard</b>                  | -                                                                       |
| <b>Label(s)</b>                           | 3                                                                       |
| <b>14.4. Packing group</b>                | II                                                                      |
| <b>14.5. Environmental hazards</b>        | No.                                                                     |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

#### IATA

|                                           |                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------|
| <b>14.1. UN number</b>                    | UN1263                                                                  |
| <b>14.2. UN proper shipping name</b>      | PAINT RELATED MATERIAL (TOLUENE, METHYL ETHYL KETONE)                   |
| <b>14.3. Transport hazard class(es)</b>   |                                                                         |
| <b>Class</b>                              | 3                                                                       |
| <b>Subsidiary hazard</b>                  | -                                                                       |
| <b>14.4. Packing group</b>                | II                                                                      |
| <b>14.5. Environmental hazards</b>        | No.                                                                     |
| <b>ERG Code</b>                           | 3H                                                                      |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>                  |                                                                         |
| <b>Passenger and cargo aircraft</b>       | Allowed with restrictions.                                              |
| <b>Cargo aircraft only</b>                | Allowed with restrictions.                                              |

#### IMDG

|                                                                      |                                                                         |
|----------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                               | UN1263                                                                  |
| <b>14.2. UN proper shipping name</b>                                 | PAINT RELATED MATERIAL (TOLUENE, METHYL ETHYL KETONE)                   |
| <b>14.3. Transport hazard class(es)</b>                              |                                                                         |
| <b>Class</b>                                                         | 3                                                                       |
| <b>Subsidiary hazard</b>                                             | -                                                                       |
| <b>14.4. Packing group</b>                                           | II                                                                      |
| <b>14.5. Environmental hazards</b>                                   |                                                                         |
| <b>Marine pollutant</b>                                              | No.                                                                     |
| <b>EmS</b>                                                           | F-E, S-E                                                                |
| <b>14.6. Special precautions for user</b>                            | Read safety instructions, SDS and emergency procedures before handling. |
| <b>14.7. Maritime transport in bulk according to IMO instruments</b> | Not established.                                                        |



## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Toluene (CAS 108-88-3)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended**

**- Conditions of restriction given for the associated entry number should be considered**

Toluene (CAS 108-88-3)

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**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended**

Not listed.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**Switzerland. Schedules 1A-3B on Substances Subject to ChKV, Regulation on the Control of Chemicals with Civilian and Military Use (ChKV)**

Not listed.

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

All components of the mixture are on the EINECS or ELINCS inventories.

## SECTION 16: Other information

### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TWA: Time Weighted Average.  
vPvB: Very persistent and very bioaccumulative.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

### Revision information

Product and Company Identification: Product and Company Identification  
SECTION 4: First aid measures: Eye contact  
SECTION 5: Firefighting measures: Unsuitable extinguishing media  
SECTION 6: Accidental release measures: For emergency responders  
SECTION 8: Exposure controls/personal protection: Hygiene measures

### Training information

Follow training instructions when handling this material.

### Disclaimer

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose