

## 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 1A33 Gel

**Registration number** -

**UFI:** KHV5-H0H0-P000-HRS8

**Synonyms** None.

**Product code** AI0000-2126

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

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

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

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

##### Supplier

**Company name** CHASE CORPORATION Zeta Drive Plant

**Address** 201 Zeta Drive  
Pittsburgh, Pennsylvania 15238  
United States

##### Division

**Telephone** 1-866-932-0800

**e-mail** techsupport@humiseal.com

**Contact person** Not available.

**1.4. Emergency telephone number** (+1)703-527-3887 CHEMTREC

### 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. The classification of the substance or mixture has been performed in accordance with ABNT NBR 14725.

#### 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.                       |
| Skin sensitisation                       | Category 1 | H317 - May cause an allergic skin reaction.          |
| Reproductive toxicity (the unborn child) | Category 2 | H361d - Suspected of damaging the unborn child.      |
| 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:** Xylene, Butanone, Ethylbenzene, Toluene, 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich, octhlinone (ISO);2-octyl-2H-isothiazol-3-one; [OIT]

#### 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.  
H317 May cause an allergic skin reaction.  
H361d Suspected of damaging the unborn child.  
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.  
P261 Avoid breathing 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** 6,06 % of the mixture consists of component(s) of unknown acute dermal toxicity. 40,83 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 40,83 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name                                                                                                                                                                            | %         | CAS-No. / EC No.       | REACH Registration No. | Index No.    | Notes |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|------------------------|--------------|-------|
| Xylene                                                                                                                                                                                   | 30 - < 40 | 1330-20-7<br>215-535-7 | 01-2119488216-32-XXXX  | 601-022-00-9 | #     |
| <b>Classification:</b> Flam. Liq. 3;H226, Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Acute Tox. 4;H332;(ATE: 11 mg/l), Skin Irrit. 2;H315, STOT SE 3;H335, STOT RE 2;H373, Asp. Tox. 1;H304 |           |                        |                        |              |       |
| Butanone                                                                                                                                                                                 | 5 - < 10  | 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 Statement(s):</b>                                                                                                                                          |           |                        |                        |              |       |

| Chemical name                                                                                                                                                                                                                                              | %        | CAS-No. / EC No.        | REACH Registration No. | Index No.    | Notes |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------|------------------------|--------------|-------|
| Ethylbenzene                                                                                                                                                                                                                                               | 5 - < 10 | 100-41-4<br>202-849-4   | 01-2119489370-35       | 601-023-00-4 | #     |
| <b>Classification:</b> Flam. Liq. 2;H225, Acute Tox. 4;H332;(ATE: 11 mg/l), STOT RE 2;H373, Asp. Tox. 1;H304, Aquatic Chronic 2;H411                                                                                                                       |          |                         |                        |              |       |
| Toluene                                                                                                                                                                                                                                                    | 5 - < 10 | 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                                                                                                      |          |                         |                        |              |       |
| 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich                                                                                                                                                                                     | < 1      | 68515-49-1<br>271-091-4 | -                      | 607-480-00-6 |       |
| <b>Classification:</b> -                                                                                                                                                                                                                                   |          |                         |                        |              |       |
| octhilinone<br>(ISO);2-octyl-2H-isothiazol-3-one;<br>[OIT]                                                                                                                                                                                                 | < 0,1    | 26530-20-1<br>247-761-7 | -                      | 613-112-00-5 |       |
| <b>Classification:</b> Acute Tox. 3;H301;(ATE: 125 mg/kg bw), Acute Tox. 3;H311;(ATE: 311 mg/kg bw), Acute Tox. 2;H330;(ATE: 0,5 mg/l), Skin Corr. 1;H314, Eye Dam. 1;H318, Skin Sens. 1A;H317, Aquatic Acute 1;H400(M=100), Aquatic Chronic 1;H410(M=100) |          |                         |                        |              |       |
| <b>Supplemental Hazard EUH071</b>                                                                                                                                                                                                                          |          |                         |                        |              |       |
| <b>Statement(s):</b>                                                                                                                                                                                                                                       |          |                         |                        |              |       |
| <b>Specific Concentration Limits:</b> Skin Sens. 1A;H317: C ≥ 0.0015 %                                                                                                                                                                                     |          |                         |                        |              |       |

#### 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 per

**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 preca

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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. 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. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

**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 und

## SECTION 5: Firefighting measures

**General fire hazards** Highly flammable liquid and vapour.

|                                                                   |                                                                                                                                                                                      |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5.1. Extinguishing media</b>                                   |                                                                                                                                                                                      |
| <b>Suitable extinguishing media</b>                               | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                                                                                                             |
| <b>Unsuitable extinguishing media</b>                             | Do not use water jet as an extinguisher, as this will spread the fire.                                                                                                               |
| <b>5.2. Special hazards arising from the substance or mixture</b> | 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. |
| <b>5.3. Advice for firefighters</b>                               |                                                                                                                                                                                      |
| <b>Special protective equipment for firefighters</b>              | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                                                                        |
| <b>Special fire fighting procedures</b>                           | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.                                                                 |
| <b>Specific methods</b>                                           | Use standard firefighting procedures and consider the hazards of other involved materials.                                                                                           |

## SECTION 6: Accidental release measures

|                                                                                 |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1. Personal precautions, protective equipment and emergency procedures</b> |                                                                                                                                                                                                                                                                     |
| <b>For non-emergency personnel</b>                                              | Avoid breathing 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/v |
| <b>6.2. Environmental precautions</b>                                           | 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.                        |
| <b>6.3. Methods and material for containment and cleaning up</b>                | 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 f |
| <b>6.4. Reference to other sections</b>                                         | For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.                                                                                                                                                                   |

## SECTION 7: Handling and storage

|                                                                          |                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1. Precautions for safe handling</b>                                | 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 |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | 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-ventilat |

**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

**Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended**

| Components                  | Type | Value                 |
|-----------------------------|------|-----------------------|
| Butanone (CAS 78-93-3)      | STEL | 900 mg/m3<br>300 ppm  |
|                             | TWA  | 590 mg/m3<br>197 ppm  |
| Ethylbenzene (CAS 100-41-4) | STEL | 430 mg/m3<br>97,3 ppm |
|                             | TWA  | 215 mg/m3<br>48,6 ppm |
| Toluene (CAS 108-88-3)      | STEL | 384 mg/m3<br>100 ppm  |
|                             | TWA  | 150 mg/m3<br>39 ppm   |
| Xylene (CAS 1330-20-7)      | STEL | 442 mg/m3<br>100 ppm  |
|                             | TWA  | 210 mg/m3<br>47,5 ppm |

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU**

| Components                  | Type | Value                |
|-----------------------------|------|----------------------|
| Butanone (CAS 78-93-3)      | STEL | 900 mg/m3<br>300 ppm |
|                             | TWA  | 600 mg/m3<br>200 ppm |
| Ethylbenzene (CAS 100-41-4) | STEL | 884 mg/m3<br>200 ppm |
|                             | TWA  | 442 mg/m3<br>100 ppm |
| Toluene (CAS 108-88-3)      | STEL | 384 mg/m3<br>100 ppm |
|                             | TWA  | 192 mg/m3<br>50 ppm  |
| Xylene (CAS 1330-20-7)      | STEL | 442 mg/m3<br>100 ppm |
|                             | TWA  | 221 mg/m3<br>50 ppm  |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

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

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

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

#### Exposure guidelines

**Netherlands OELs (binding): Skin designation**

|                             |                                   |
|-----------------------------|-----------------------------------|
| Butanone (CAS 78-93-3)      | Can be absorbed through the skin. |
| Ethylbenzene (CAS 100-41-4) | 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 air

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

**General information** 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.

**Eye/face protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves.

**- Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Thermal hazards** 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 equipm

**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, f

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

**Physical state** Liquid.

**Form** Liquid.

**Colour** Clear.

**Odour** Aromatic

**Melting point/freezing point** -94,9 °C (-138,82 °F) estimated

**Boiling point or initial boiling point and boiling range** 79,59 °C (175,26 °F) estimated

**Flammability** Highly flammable liquid

**Upper/lower flammability or explosive limits**

**Explosive limit - lower ( %)** 1 % estimated

**Explosive limit – upper (%)** 7 % estimated

**Flash point** 9,0 °C (48,2 °F) estimated

**Auto-ignition temperature** 432,22 °C (810 °F) estimated

**Decomposition temperature** Not available.

**pH** Does not apply.

**Kinematic viscosity** Not available.

**Solubility**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water) (log value)** Not available.

**Vapour pressure** 25,71 hPa estimated

**Density and/or relative density**

**Density** 0,95 g/cm3 estimated  
0,95 g/cm3

**Vapour density** Not available.

Particle characteristics 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

|                  |                              |
|------------------|------------------------------|
| Evaporation rate | 3,6 BuAc                     |
| Miscible (water) | Negligible                   |
| Percent volatile | > 45 - < 55 % v/v estimated  |
| Specific gravity | 0,95 estimated<br>0,95       |
| VOC              | 521 g/l<br>52,34 % estimated |

## SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents. Amines. Ammonia. Caustics. Isocyanates.

10.6. Hazardous decomposition products 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

|              |                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Prolonged inhalation may be harmful.                                                                                   |
| Skin contact | Causes skin irritation. May cause an allergic skin reaction.                                                           |
| Eye contact  | Direct contact with eyes may cause temporary irritation.                                                               |
| Ingestion    | 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. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### 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 1A33 Gel                                                                       |         |                        |
| <u>Acute</u>                                                                            |         |                        |
| <b>Dermal</b>                                                                           |         |                        |
| LD50                                                                                    | Rabbit  | 63092 mg/kg            |
| <b>Inhalation</b>                                                                       |         |                        |
| LC50                                                                                    | Rat     | 18701 mg/l, 4 Hours    |
| <b>Oral</b>                                                                             |         |                        |
| LD50                                                                                    | Rat     | 7220 mg/kg             |
| Components                                                                              | Species | Test Results           |
| 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (CAS 68515-49-1) |         |                        |
| <u>Acute</u>                                                                            |         |                        |
| <b>Dermal</b>                                                                           |         |                        |
| LD50                                                                                    | Rabbit  | > 3160 mg/kg, 24 Hours |
| Butanone (CAS 78-93-3)                                                                  |         |                        |
| <u>Acute</u>                                                                            |         |                        |
| <b>Dermal</b>                                                                           |         |                        |
| LD50                                                                                    | Rabbit  | 8054 mg/kg             |

| Components                                                            | Species                                                                     | Test Results                                        |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Inhalation</b>                                                     |                                                                             |                                                     |
| <i>Vapour</i>                                                         |                                                                             |                                                     |
| LC50                                                                  | Rat                                                                         | 34 mg/l, 4 hours                                    |
| <b>Oral</b>                                                           |                                                                             |                                                     |
| LD50                                                                  | Rat                                                                         | 2193 mg/kg                                          |
|                                                                       |                                                                             | 2054 mg/kg                                          |
| Ethylbenzene (CAS 100-41-4)                                           |                                                                             |                                                     |
| <b><u>Acute</u></b>                                                   |                                                                             |                                                     |
| <b>Dermal</b>                                                         |                                                                             |                                                     |
| LD50                                                                  | Rabbit                                                                      | 15400 mg/kg                                         |
| <b>Inhalation</b>                                                     |                                                                             |                                                     |
| <i>Vapour</i>                                                         |                                                                             |                                                     |
| LC50                                                                  | Rat                                                                         | 17,63 mg/l, 4 hours                                 |
| <b>Oral</b>                                                           |                                                                             |                                                     |
| LD50                                                                  | Rat                                                                         | 3500 mg/kg                                          |
| octhilinone (ISO);2-octyl-2H-isothiazol-3-one; [OIT] (CAS 26530-20-1) |                                                                             |                                                     |
| <b><u>Acute</u></b>                                                   |                                                                             |                                                     |
| <b>Oral</b>                                                           |                                                                             |                                                     |
| LD50                                                                  | Rat                                                                         | 125 mg/kg                                           |
| Toluene (CAS 108-88-3)                                                |                                                                             |                                                     |
| <b><u>Acute</u></b>                                                   |                                                                             |                                                     |
| <b>Dermal</b>                                                         |                                                                             |                                                     |
| LD50                                                                  | Rabbit                                                                      | > 5000 mg/kg                                        |
|                                                                       |                                                                             | > 5000 mg/kg, 24 Hours                              |
| <b>Inhalation</b>                                                     |                                                                             |                                                     |
| <i>Vapour</i>                                                         |                                                                             |                                                     |
| LC50                                                                  | Rat                                                                         | > 20 mg/l, 4 hours                                  |
| <b>Oral</b>                                                           |                                                                             |                                                     |
| LD50                                                                  | Rat                                                                         | > 5000 mg/kg                                        |
|                                                                       |                                                                             | 2,6 - 7,5 g/kg                                      |
| Xylene (CAS 1330-20-7)                                                |                                                                             |                                                     |
| <b><u>Acute</u></b>                                                   |                                                                             |                                                     |
| <b>Oral</b>                                                           |                                                                             |                                                     |
| LD50                                                                  | Rat                                                                         | 3523 mg/kg                                          |
| <b>Skin corrosion/irritation</b>                                      | Causes skin irritation.                                                     |                                                     |
| <b>Serious eye damage/eye irritation</b>                              | Direct contact with eyes may cause temporary irritation.                    |                                                     |
| <b>Respiratory sensitisation</b>                                      | Due to partial or complete lack of data the classification is not possible. |                                                     |
| <b>Skin sensitisation</b>                                             | May cause an allergic skin reaction.                                        |                                                     |
| <b>Germ cell mutagenicity</b>                                         | Due to partial or complete lack of data the classification is not possible. |                                                     |
| <b>Carcinogenicity</b>                                                | Risk of cancer cannot be excluded with prolonged exposure.                  |                                                     |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |                                                                             |                                                     |
| Ethylbenzene (CAS 100-41-4)                                           |                                                                             | 2B Possibly carcinogenic to humans.                 |
| Toluene (CAS 108-88-3)                                                |                                                                             | 3 Not classifiable as to carcinogenicity to humans. |
| Xylene (CAS 1330-20-7)                                                |                                                                             | 3 Not classifiable as to carcinogenicity to humans. |
| <b>Reproductive toxicity</b>                                          | Suspected of damaging the unborn child.                                     |                                                     |
| <b>Specific target organ toxicity - single exposure</b>               | Due to partial or complete lack of data the classification is not possible. |                                                     |
| <b>Specific target organ toxicity - repeated exposure</b>             | Due to partial or complete lack of data the classification is not possible. |                                                     |
| <b>Aspiration hazard</b>                                              | 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 1A33 Gel           |      |                                                     |  |                                 |
| Aquatic                     |      |                                                     |  |                                 |
| Crustacea                   | EC50 | Daphnia                                             |  | 45,8732 mg/l, 48 hours          |
| Fish                        | LC50 | Fish                                                |  | 110,8866 mg/l, 96 hours         |
| Acute                       |      |                                                     |  |                                 |
| Crustacea                   | EC50 | Daphnia                                             |  | 5,2776 mg/l, 48 hours estimated |
| Fish                        | LC50 | Fish                                                |  | 3,532 mg/l, 96 hours estimated  |
| Components                  |      | Species                                             |  | Test Results                    |
| Ethylbenzene (CAS 100-41-4) |      |                                                     |  |                                 |
| Aquatic                     |      |                                                     |  |                                 |
| Acute                       |      |                                                     |  |                                 |
| Crustacea                   | EC50 | Daphnia                                             |  | 1,8 mg/l, 48 hours              |
|                             |      | Water flea (Daphnia magna)                          |  | 1,37 - 4,4 mg/l, 48 hours       |
| Fish                        | LC50 | Fish                                                |  | 4,2 mg/l, 96 hours              |
| Toluene (CAS 108-88-3)      |      |                                                     |  |                                 |
| Aquatic                     |      |                                                     |  |                                 |
| Acute                       |      |                                                     |  |                                 |
| Crustacea                   | EC50 | Invertebrates (Invertebrates)                       |  | 3,78 mg/l, 48 hours             |
| Fish                        | LC50 | Fish                                                |  | 5,5 mg/l, 96 hours              |
| Xylene (CAS 1330-20-7)      |      |                                                     |  |                                 |
| Aquatic                     |      |                                                     |  |                                 |
| Acute                       |      |                                                     |  |                                 |
| Fish                        | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) |  | 6,702 - 10,032 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 |
| Ethylbenzene (CAS 100-41-4) | 3,15 |
| 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.

|                                              |                                                                                                                                                                                                                                                                     |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.6. Endocrine disrupting properties</b> | 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 subs |
| <b>12.7. Other adverse effects</b>           | 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.                                                                                |
| <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 |
| <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                                                                   |
| <b>14.3. Transport hazard class(es)</b>   |                                                                         |
| Class                                     | 3                                                                       |
| Subsidiary hazard                         | -                                                                       |
| Label(s)                                  | 3                                                                       |
| Hazard No. (ADR)                          | 33                                                                      |
| Tunnel restriction code                   | D/E                                                                     |
| <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                                                                   |
| <b>14.3. Transport hazard class(es)</b>   |                                                                         |
| Class                                     | 3                                                                       |
| Subsidiary hazard                         | -                                                                       |
| Label(s)                                  | 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                                                                   |
| <b>14.3. Transport hazard class(es)</b>   |                                                                         |
| Class                                     | 3                                                                       |
| Subsidiary hazard                         | -                                                                       |
| Label(s)                                  | 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

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

## IMDG

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

ADN; ADR; IATA; IMDG; RID



## 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

Ethylbenzene (CAS 100-41-4)

Toluene (CAS 108-88-3)

Xylene (CAS 1330-20-7)

**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**

1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (CAS 68515-49-1) 52

Toluene (CAS 108-88-3) 48

**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

**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.

#### 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

#### Non-exhaustive list of substances toxic for reproduction

Toluene (CAS 108-88-3)

Possible risk of harm to the unborn child. 2

Xylene (CAS 1330-20-7)

Possible risk of harm to the unborn child. 2

#### SZW list of carcinogenic substances

Not listed.

#### SZW list of mutagenic substances

Not listed.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

### 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>References</b>                                                                            | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Information on evaluation method leading to the classification of mixture</b>             | The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Full text of any statements, which are not written out in full under sections 2 to 15</b> | <p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H301 Toxic if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H311 Toxic in contact with skin.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H330 Fatal if inhaled.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H361d Suspected of damaging the unborn child.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> <p>EUH071 Corrosive to the respiratory tract.</p> |
| <b>Revision information</b>                                                                  | Product and Company Identification: Product and Company Identification<br>Composition / Information on Ingredients: Component Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Training information</b>                                                                  | Follow training instructions when handling this material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Disclaimer</b>                                                                            | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |