

## Safety Data Sheet

## Aniline-d7

Classification acc. to 29 CFR 1910.1200

Version number: GHS 3.0  
Replaces version of: 2023-02-02 (GHS 2)

Revision: 2025-06-10

### SECTION 1: Identification

#### 1.1 Product identifier

Identification of the substance **Aniline-d7**  
CAS number 14545-23-4  
Alternative name(s) aniline-d7

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

Relevant identified uses industrial uses  
the product is intended for research, analysis and scientific education  
scientific research and development  
product and process oriented research and development  
laboratory and analytical use  
laboratory chemical  
HS code 2845.90.

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

Zeochem AG  
Joweid 5, CH-8630 Rüti  
Switzerland  
Telephone: +41 44 922 93 93  
e-Mail: [info@zeochem.com](mailto:info@zeochem.com)  
Website: <https://www.zeochem.com>

#### 1.4 Emergency telephone number

| Poison center |                                      |                                     |
|---------------|--------------------------------------|-------------------------------------|
| Country       | Name                                 | Telephone                           |
| Switzerland   | Toxzentrum Zürich / Tox. Info Suisse | +41 44 251 51 51 / CH: 145 - 24h/7d |
| United States | CHEMTREC USA                         | +1 800 424 9300 - 24h/7d            |

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| A.1O    | acute toxicity (oral)             | 4        | Acute Tox. 4              | H302             |
| A.1D    | acute toxicity (dermal)           | 3        | Acute Tox. 3              | H311             |
| A.1I    | acute toxicity (inhal.)           | 3        | Acute Tox. 3              | H331             |
| A.3     | serious eye damage/eye irritation | 1        | Eye Dam. 1                | H318             |
| A.4S    | skin sensitization                | 1        | Skin Sens. 1              | H317             |
| A.5     | germ cell mutagenicity            | 2        | Muta. 2                   | H341             |

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| Section | Hazard class                                       | Category | Hazard class and category | Hazard statement |
|---------|----------------------------------------------------|----------|---------------------------|------------------|
| A.6     | carcinogenicity                                    | 1B       | Carc. 1B                  | H350             |
| A.9     | specific target organ toxicity - repeated exposure | 1        | STOT RE 1                 | H372             |
| B.6     | flammable liquid                                   | 4        | Flam. Liq. 4              | H227             |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.

## 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

### 2.2.1.2 Pictograms

|                               |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------|
| GHS05, GHS06,<br>GHS07, GHS08 |  |
|-------------------------------|-------------------------------------------------------------------------------------|

| Hazard statements |                                                                |
|-------------------|----------------------------------------------------------------|
| H227              | combustible liquid                                             |
| H302              | harmful if swallowed                                           |
| H311+H331         | toxic in contact with skin or if inhaled                       |
| H317              | may cause an allergic skin reaction                            |
| H318              | causes serious eye damage                                      |
| H341              | suspected of causing genetic defects                           |
| H350              | may cause cancer                                               |
| H372              | causes damage to organs through prolonged or repeated exposure |

| Precautionary statements |                                                                           |
|--------------------------|---------------------------------------------------------------------------|
| P201                     | obtain special instructions before use                                    |
| P210                     | keep away from heat/sparks/open flames/hot surfaces. No smoking           |
| P260                     | do not breathe dust/fume/gas/mist/vapors/spray                            |
| P270                     | do not eat, drink or smoke when using this product                        |
| P271                     | use only outdoors or in a well-ventilated area                            |
| P272                     | contaminated work clothing must not be allowed out of the workplace       |
| P280                     | wear protective gloves/eye protection/face protection                     |
| P302+P352                | if on skin: Wash with plenty of water                                     |
| P304+P340                | if inhaled: Remove person to fresh air and keep comfortable for breathing |

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| Precautionary statements |                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| P305+P351+P338           | if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P310                     | immediately call a poison center/doctor                                                                                         |
| P321                     | specific treatment (see on this label)                                                                                          |
| P330                     | rinse mouth                                                                                                                     |
| P362                     | take off contaminated clothing and wash before reuse                                                                            |
| P363                     | wash contaminated clothing before reuse                                                                                         |
| P370+P378                | in case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish                                                  |
| P403+P233                | store in a well-ventilated place. Keep container tightly closed                                                                 |
| P403+P235                | store in a well-ventilated place. Keep cool                                                                                     |
| P405                     | store locked up                                                                                                                 |
| P501                     | dispose of contents/container in accordance with local/regional/national/international regulations                              |

### 2.3 Other hazards

This material is combustible, but will not ignite readily.

Hazards not otherwise classified

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |             |
|-------------------|-------------|
| Name of substance | Aniline-d7  |
| Identifiers       |             |
| CAS No            | 14545-23-4  |
| Purity            | $\geq 90\%$ |
| Molecular formula | C6D7N       |
| Molar mass        | 100 g/mol   |

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

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If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

### Following skin contact

Wash with plenty of soap and water.

### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

### Appropriate containment techniques

Use of adsorbent materials.

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

Store in a dry place.

#### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

#### - Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

#### - Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

#### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### - Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

#### - Specific designs for storage rooms or vessels

#### - Storage temperature

Recommended storage temperature: 3 – 6 °C  
2 °C

#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) |                      |         |            |           |             |            |              |                 |                   |                |                   |
|----------------------------------------------------------------|----------------------|---------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------------|-------------------|
| Country                                                        | Name of agent        | CAS No  | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation       | Source            |
| US                                                             | aniline              | 62-53-3 | PEL (CA)   | 2         | 7.6         |            |              |                 |                   | H              | Cal/OSH A PEL     |
| US                                                             | aniline              | 62-53-3 | TLV®       | 2         |             |            |              |                 |                   | H              | ACGIH® 2023       |
| US                                                             | aniline and homologs | 62-53-3 | PEL        | 5         | 19          |            |              |                 |                   | H              | 29 CFR 1910.10 00 |
| US                                                             | aniline and homologs | 62-53-3 | REL        |           |             |            |              |                 |                   | lowest, appx-A | NIOSH REL         |

##### Notation

|           |                                                                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| appx-A    | NIOSH Potential Occupational Carcinogen (Appendix A)                                                                                                                        |
| Ceiling-C | ceiling value is a limit value above which exposure should not occur                                                                                                        |
| H         | absorbed through the skin                                                                                                                                                   |
| lowest    | exposure by all routes should be carefully controlled to levels as low as possible                                                                                          |
| STEL      | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)                      |
| TWA       | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours<br>time-weighted average (unless otherwise specified) |

##### Biological limit values

| Country | Name of agent | Parameter | Notation | Identifier | Value    | Source      |
|---------|---------------|-----------|----------|------------|----------|-------------|
| US      | aniline       | aniline   | hydr     | BEI®       | 0.5 mg/l | ACGIH® 2023 |

##### Notation

|      |            |
|------|------------|
| hydr | hydrolysis |
|------|------------|

#### Human health values

##### Relevant DNELs and other threshold levels

| Endpoint | Threshold level | Protection goal, route of exposure | Used in           | Exposure time              |
|----------|-----------------|------------------------------------|-------------------|----------------------------|
| DNEL     | 7.7 mg/m³       | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| DNEL     | 15.4 mg/m³      | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| DNEL     | 2 mg/kg bw/day  | human, dermal                      | worker (industry) | chronic - systemic effects |
| DNEL     | 4 mg/kg bw/day  | human, dermal                      | worker (industry) | acute - systemic effects   |

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### Environment values

| Relevant PNECs and other threshold levels |                 |                       |                              |                              |
|-------------------------------------------|-----------------|-----------------------|------------------------------|------------------------------|
| Endpoint                                  | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| PNEC                                      | 0.001 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| PNEC                                      | 0 mg/l          | aquatic organisms     | marine water                 | short-term (single instance) |
| PNEC                                      | 2 mg/l          | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| PNEC                                      | 0.153 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| PNEC                                      | 0.015 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| PNEC                                      | 0.033 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

Nitrile

IIR: isobutene-isoprene (butyl) rubber

- Breakthrough times of the glove material

>30 minutes (permeation: level 2)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                |           |
|----------------|-----------|
| Physical state | liquid    |
| Color          | colorless |

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|          |                       |
|----------|-----------------------|
| Particle | not relevant (liquid) |
|----------|-----------------------|

### Other safety parameters

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
| pH (value)                              | not determined                    |
| Melting point/freezing point            | -6.2 °C                           |
| Initial boiling point and boiling range | 184 °C at 1,013 hPa               |
| Flash point                             | 76 °C at 1,013 hPa (closed cup)   |
| Evaporation rate                        | not determined                    |
| Flammability (solid, gas)               | not relevant, (fluid)             |
| Vapor pressure                          | 0.4 hPa at 20 °C                  |
| Density                                 | 1.1 g/cm <sup>3</sup>             |
| Vapor density                           | this information is not available |

### Solubility(ies)

|                    |                 |
|--------------------|-----------------|
| - Water solubility | 35 g/l at 20 °C |
|--------------------|-----------------|

### Partition coefficient

|                                       |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| - n-octanol/water (log KOW)           | 0.91 (pH value: 7.5, 25 °C) (ECHA)                                         |
| - Soil organic carbon/water (log KOC) | 2.11 (ECHA)                                                                |
| Auto-ignition temperature             | 630 °C at 1,013 hPa (ECHA) (auto-ignition temperature (liquids and gases)) |

### Viscosity

|                       |                                  |
|-----------------------|----------------------------------|
| - Kinematic viscosity | 3.95 mm <sup>2</sup> /s at 20 °C |
| - Dynamic viscosity   | 4.35 mPa s at 20 °C              |
| Explosive properties  | none                             |
| Oxidizing properties  | none                             |

## 9.2 Other information

|                                          |                                                                      |
|------------------------------------------|----------------------------------------------------------------------|
| Refractive index                         | 1.58 (20 °C)                                                         |
| Temperature class (USA, acc. to NEC 500) | T1 (maximum permissible surface temperature on the equipment: 450°C) |



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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### 10.5 Incompatible materials

Oxidizers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

Acute toxicity

Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled.

- Acute toxicity estimate (ATE)

|                   |           |
|-------------------|-----------|
| Oral              | 442 mg/kg |
| Dermal            | 300 mg/kg |
| Inhalation: vapor | 3 mg/l/4h |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

May cause cancer.

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| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans |         |                |        |
|-------------------------------------------------------------------|---------|----------------|--------|
| Name of substance                                                 | CAS No  | Classification | Number |
| Aniline-d7                                                        | 62-53-3 | 2A             |        |

### Legend

2A Probably carcinogenic to humans

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) |           |                       |               |
|--------------------------|-----------|-----------------------|---------------|
| Endpoint                 | Value     | Species               | Exposure time |
| LC50                     | 28.3 mg/l | fish                  | 48 h          |
| EC50                     | 0.16 mg/l | aquatic invertebrates | 48 h          |
| ErC50                    | 175 mg/l  | algae                 | 72 h          |

| Aquatic toxicity (chronic) |            |                       |               |
|----------------------------|------------|-----------------------|---------------|
| Endpoint                   | Value      | Species               | Exposure time |
| LC50                       | 8.2 mg/l   | fish                  | 7 d           |
| EC50                       | 0.044 mg/l | aquatic invertebrates | 21 d          |

### 12.2 Persistence and degradability

#### Biodegradation

The substance is readily biodegradable.

| Process of degradability |                  |      |
|--------------------------|------------------|------|
| Process                  | Degradation rate | Time |
| oxygen depletion         | 70 %             | 15 d |
| DOC removal              | 100 %            | 5 d  |

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### 12.3 Bioaccumulative potential

Data are not available.

|                           |                                    |
|---------------------------|------------------------------------|
| n-octanol/water (log KOW) | 0.91 (pH value: 7.5, 25 °C) (ECHA) |
| BCF                       | 2.6 (ECHA)                         |

### 12.4 Mobility in soil

|                                                      |                                       |
|------------------------------------------------------|---------------------------------------|
| Henry's law constant                                 | 0.205 Pa m <sup>3</sup> /mol at 25 °C |
| The Organic Carbon normalised adsorption coefficient | 2.11 (ECHA)                           |

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number

|           |         |
|-----------|---------|
| DOT       | UN 1547 |
| IMDG-Code | UN 1547 |
| ICAO-TI   | UN 1547 |

### 14.2 UN proper shipping name

|           |         |
|-----------|---------|
| DOT       | Aniline |
| IMDG-Code | ANILINE |
| ICAO-TI   | Aniline |

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### 14.3 Transport hazard class(es)

|           |     |
|-----------|-----|
| DOT       | 6.1 |
| IMDG-Code | 6.1 |
| ICAO-TI   | 6.1 |

### 14.4 Packing group

|           |    |
|-----------|----|
| DOT       | II |
| IMDG-Code | II |
| ICAO-TI   | II |

### 14.5 Environmental hazards

hazardous to the aquatic environment

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

|                                          |                                                     |
|------------------------------------------|-----------------------------------------------------|
| Particulars in the shipper's declaration | UN1547, Aniline, 6.1, II, environmentally hazardous |
| Reportable quantity (RQ)                 | 5,000 lbs (2,270 kg) (Aniline-d7)                   |
| Danger label(s)                          | 6.1, fish and tree                                  |



|                         |                                            |
|-------------------------|--------------------------------------------|
| Environmental hazards   | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | IB2, T7, TP2                               |
| ERG No                  | 153                                        |

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

|                  |                                                |
|------------------|------------------------------------------------|
| Marine pollutant | yes (P) (hazardous to the aquatic environment) |
| Danger label(s)  | 6.1, fish and tree                             |



|                          |          |
|--------------------------|----------|
| Special provisions (SP)  | 279      |
| Excepted quantities (EQ) | E4       |
| Limited quantities (LQ)  | 100 mL   |
| EmS                      | F-A, S-A |
| Stowage category         | A        |

#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

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|                                                                                   |                                            |
|-----------------------------------------------------------------------------------|--------------------------------------------|
| Environmental hazards                                                             | yes (hazardous to the aquatic environment) |
| Danger label(s)                                                                   | 6.1                                        |
|  |                                            |
| Special provisions (SP)                                                           | A113                                       |
| Excepted quantities (EQ)                                                          | E4                                         |
| Limited quantities (LQ)                                                           | 1 L                                        |

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### National regulations (United States)

**Toxic Substance Control Act (TSCA)** substance is listed (ACTIVE)

##### Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

| The List of Extremely Hazardous Substances and Their Threshold Planning Quantities |         |       |                              |                                      |
|------------------------------------------------------------------------------------|---------|-------|------------------------------|--------------------------------------|
| Name of substance                                                                  | CAS No  | Notes | Reportable quantity (pounds) | Threshold planning quantity (pounds) |
| Aniline-d7                                                                         | 62-53-3 | f     | 5,000                        | 1000                                 |

##### Legend

f Chemical on the original list that does not meet toxicity criteria but because of its acute lethality, high production volume and known risk is considered chemical of concern ("Other chemicals"). (November 17, 1986, and February 15, 1990.)

- Specific Toxic Chemical Listings (EPCRA Section 313)

| Toxics Release Inventory: Specific Toxic Chemical Listings |         |         |                |
|------------------------------------------------------------|---------|---------|----------------|
| Name of substance                                          | CAS No  | Remarks | Effective date |
| Aniline-d7                                                 | 62-53-3 |         | 1987-01-01     |

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No  | Remarks | Statutory code | Final RQ pounds (Kg) |
|-------------------|---------|---------|----------------|----------------------|
| Aniline-d7        | 62-53-3 |         | 1<br>3<br>4    | 5000 (2270)          |

##### Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act  
3 "3" indicates that the source is section 112 of the Clean Air Act

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### Legend

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

### Clean Air Act

not listed

### Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No  | Functionality | Authoritative Lists                                                  |
|-------------------|---------|---------------|----------------------------------------------------------------------|
| Aniline-d7        | 62-53-3 |               | CA TACs<br>IARC Carcinogens - 2A<br>IRIS Carcinogens - B2<br>Prop 65 |

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No  | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-------------------|---------|----------|-----------------|---------------------|------------------------------------|
| Aniline-d7        | 62-53-3 |          |                 |                     | 1.0 %                              |

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|-------------------|--------|------------|---------|
| Aniline-d7        |        | A, O, *    | skin    |

### Legend

\* Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH

O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No  | Remarks | Classifications |
|-------------------|---------|---------|-----------------|
| Aniline-d7        | 62-53-3 |         | CA<br>F2        |

### Legend

CA Carcinogenic

F2 Flammable - Second Degree

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### - Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No  | Classification |
|------------------------|---------|----------------|
| BENZENAMINE            | 62-53-3 | E              |

#### Legend

E Environmental hazard

### - Hazardous Substance List (RI-RTK)

| Name of substance | CAS No  | References |
|-------------------|---------|------------|
| Aniline-d7        | 62-53-3 | T, F       |

#### Legend

F Flammability (NFPA®)

T Toxicity (ACGIH®)

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

| Proposition 65 List of chemicals |         |         |                      |
|----------------------------------|---------|---------|----------------------|
| Name acc. to inventory           | CAS No  | Remarks | Type of the toxicity |
| aniline                          | 62-53-3 |         | cancer               |

### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description                                                                                                                                                |
|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic             | *      | chronic (long-term) health effects may result from repeated overexposure                                                                                   |
| Health              | 3      | major injury likely unless prompt action is taken and medical treatment is given                                                                           |
| Flammability        | 2      | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur                                       |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |                                                                                                                                                            |

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category     | Degree of hazard | Description                                                                                                          |
|--------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| Flammability | 2                | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Health       | 3                | material that, under emergency conditions, can cause serious or permanent injury                                     |

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| Category       | Degree of hazard | Description                                                  |
|----------------|------------------|--------------------------------------------------------------|
| Instability    | 0                | material that is normally stable, even under fire conditions |
| Special hazard |                  |                                                              |

### National inventories

| Country | Inventory  | Status                       |
|---------|------------|------------------------------|
| EU      | REACH Reg. | substance is listed          |
| US      | TSCA       | substance is listed (ACTIVE) |

#### Legend

REACH Reg. REACH registered substances

TSCA Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information, including date of preparation or last revision

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)                                                                                                                                                                                                     | Actual entry (text/value)                                                                                                                                                                                   | Safety-relevant |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1.3     | Details of the supplier of the safety data sheet:<br>Zeochem AG<br>Joweid 5, CH-8630 Rüti<br>Switzerland<br><br>Telephone: +41 44 922 93 93<br>e-Mail: info@zeochem.com / info@zeochem.ch<br>Website: https://www.zeochem.com | Details of the supplier of the safety data sheet:<br>Zeochem AG<br>Joweid 5, CH-8630 Rüti<br>Switzerland<br><br>Telephone: +41 44 922 93 93<br>e-Mail: info@zeochem.com<br>Website: https://www.zeochem.com | yes             |
| 2.2.1.2 |                                                                                                                                                                                                                               | Precautionary statements:<br>change in the listing (table)                                                                                                                                                  | yes             |
| 2.3     |                                                                                                                                                                                                                               | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$ .                                                                                       | yes             |
| 7.2     |                                                                                                                                                                                                                               | - Specific designs for storage rooms or vessels                                                                                                                                                             | yes             |
| 7.2     |                                                                                                                                                                                                                               | Storage temperature:<br>Recommended storage temperature: 3 – 6 °C<br>2 °C                                                                                                                                   | yes             |
| 8.1     |                                                                                                                                                                                                                               | Occupational exposure limit values (Workplace Exposure Limits):<br>change in the listing (table)                                                                                                            | yes             |
| 8.1     |                                                                                                                                                                                                                               | Biological limit values:<br>change in the listing (table)                                                                                                                                                   | yes             |
| 12.5    | Results of PBT and vPvB assessment:<br>Data are not available.                                                                                                                                                                | Results of PBT and vPvB assessment:<br>According to the results of its assessment, this substance is not a PBT or a vPvB.                                                                                   | yes             |
| 12.6    | Endocrine disrupting properties:                                                                                                                                                                                              | Endocrine disrupting properties:                                                                                                                                                                            | yes             |



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| Section | Former entry (text/value)                                           | Actual entry (text/value)                                                         | Safety-relevant |
|---------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------|
|         | Not listed.                                                         | Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$ . |                 |
| 15.1    | Toxic Substance Control Act (TSCA): substance is listed as "ACTIVE" | Toxic Substance Control Act (TSCA): substance is listed (ACTIVE)                  | yes             |
| 15.1    |                                                                     | National inventories: change in the listing (table)                               | yes             |

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IM-DG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                                            |
|------|-----------------------------------------------------------------|
| H227 | Combustible liquid.                                             |
| H302 | Harmful if swallowed.                                           |
| H311 | Toxic in contact with skin.                                     |
| H317 | May cause an allergic skin reaction.                            |
| H318 | Causes serious eye damage.                                      |
| H331 | Toxic if inhaled.                                               |
| H341 | Suspected of causing genetic defects.                           |
| H350 | May cause cancer.                                               |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.