

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 1

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Aniline

Article No.: 94200

UFI:

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Synthesis chemical

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Acute toxicity (oral), hazard category 3

Acute toxicity (dermal), hazard category 3

Acute toxicity (inhalation), hazard category 3

Skin sensitization, hazard category 1

Serious eye damage, hazard category 1

Germ cell mutagenity, hazard category 2

Carcinogenity, hazard category 2

Specific target organ toxicity (repeated exposure), hazard category 1

Acute aquatic toxicity, hazard category 1

H301+H311+H331 **F+T** If swallowed, in contact with skin, or if inhaled

Cat.: 3

H317 **Xi** May cause an allergic skin reaction.

Cat.: 1

H318 **Xn** Causes serious eye damage.

Cat.: 1

H341 **Xn** Suspected of causing genetic defects.

Cat.: 2

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 2

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

H351	Suspected of causing cancer.
Cat.: 2	
H372	Causes damage to organs through prolonged or repeated exposure.
Cat.: 1	
H410	Very toxic to aquatic life with long lasting effects.
Cat.: 1	

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:



GHS05



GHS06-2



GHS08



GHS09

Signal word:

Danger

Hazard designation:

H301+H311+H331	Toxic if swallowed, 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.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Safety designation:

P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P302+P352	If on skin: Wash with soap and water.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention.

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 3

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

Hazardous components for labelling:

2. 3. Other Hazards

*Restricted to professional users.
Labeling of packaging containing no more than 10 ml:
Keyword: Not required
Hazard pictograms: GHS06; GHS08
Hazard statements: Not required; Safety precautions: Not required*

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: Dyestuff for lacquers and wood stains. C6H5NH2

Information on Components / Hazardous Ingredients:

Aniline (H301+311+ 331-317-318-341-351-372-410)	> 99 %	CAS-Nr: 62-53-3 EINECS-Nr: 200-539-3 EC-Nr: 612-008-00-7
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Additional information:

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

*Remove contaminated clothes immediately.
First aiders: mind self-protection!*

After inhalation:

*Supply fresh air or give oxygen.
Consult physician immediately.
If breathing stops: immediately apply artificial respiration, if necessary also oxygen.*

After skin contact:

*Remove contaminated clothing immediately.
Wash off with plenty of water.
Consult a physician immediately.*

After eye contact:

In case of eye contact, thoroughly rinse with water and consult a doctor. Remove contact lens.

After ingestion:

*Drink 1 - 2 glasses of water. Seek medical attention immediately.
Induce vomiting only if medical help is not possible within one hour (only if the affected person is not unconscious).
Give active coal (20-40 g in 10% suspension) and immediately consult physician.*

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

next page: 4

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 4

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

Irritation and caustic effect, allergic reactions, nausea, vomiting.

Eye contact: risk of serious eye damage.

The following applies to aromatic amines in general: systemic effect: methaemoglobinaemia with headache, cardiac dysrhythmia, drop in blood pressure, dyspnoea and spasms. Principal symptom: cyanosis (blue discoloration of the blood).

Effects:

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Laxans: sodium sulfate (1 spoon / 250 ml H₂O).

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water.

Unsuitable extinguishing media:

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

Combustible.

Vapor is heavier than air and spreads along the ground.

When strongly heated an explosive mixture with air can be formed.

Formation of hazardous combustion gases or vapors possible in the event of fire.

In case of fire: formation of nitrous gases, nitrogen oxides.

5. 3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Wear self-contained respiratory protective device.

Further information:

Suppress escaping gases/fumes/mist with a water spray jet.

Avoid contamination of sewage system, open water ways and ground water.

6. Accidental Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Do not inhale aerosol/fumes/vapors.

Avoid contact with skin.

Ensure adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

next page: 5

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 5

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain carefully with absorbent material (e.g. Chemizorb®) and dispose accordingly. Clean remains.

6.4. Reference to other Sections

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Work under an extractor hood.

Do not swallow or inhale.

Avoid formation of vapors/aerosols.

Hygienic measures:

Change contaminated clothing. Preventive skin protection recommended. Wash hands after work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.

Keep product shut away or kept in a manner so as to ensure that only qualified persons may have access.

Protect from direct exposure to light.

Requirements for storage areas and containers:

Unsuitable container material: metals.

Information on fire and explosion protection:

Storage class:

6.1 A; Combustible toxic products (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Aniline (CAS 62-53-3), AGW: 2 ppm / 7.7 mg/m³; Skin absorptive, Cat. II

BAT (DE): 100 µg/l (blood)

BAT (DE): 1 mg/l (urine)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 6

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

7.7 mg/m³ (worker, inhalation, long-term exposure - systemic effects)
15.4 mg/m³ (worker, inhalation, short-term exposure - systemic effects)
2 mg/kg bw (worker, skin contact, long-term exposure - systemic effects)
4 mg/kg bw (worker, skin contact, short-term exposure - systemic effects)

PNEC (Predicted No-Effect Concentration):

Fresh water: 0.0012 mg/l
Sea water: 0.00012 mg/l
Fresh water sediment / Sea water sediment: 0.153 mg/kg
Sewage treatment system (STP): 2 mg/l
Soil: 0.033 mg/kg

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Use local exhaust ventilation in case of dust and/or fume formation.

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.
Do not inhale vapor/dust.
Remove contaminated clothing immediately.

Respiratory protection:

In case of formation of dust/vapor.
Recommended: combination filter A-P3 (EN 141)

Hand protection:

Protective gloves (EN 374)

Protective glove material:

For long-term exposure: butyl rubber (BTT>480 min, 0.7 mm).
For short-term exposure:
Natural rubber (> 60 min, 0.6 mm)

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Do not allow entering sewerage system.

9. Physical and Chemical Properties

9. 1. Information on Basic Physical and Chemical Properties

next page: 7

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 7

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>bright brown</i>
<i>Odor:</i>	<i>amine-like</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>8.8 (36 g/l; 20°C)</i>
<i>Melting temperature:</i>	<i>-6.2°C (ECHA)</i>
<i>Boiling temperature:</i>	<i>184°C (1.013 hPa)(ECHA)</i>
<i>Flash point:</i>	<i>76°C (1013 hPa)(ECHA)</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not available</i>
<i>Upper explosion limit:</i>	<i>11 Vol. %</i>
<i>Lower explosion limit:</i>	<i>1.2 Vol. %</i>
<i>Vapor pressure:</i>	<i>0.5 hPa (20°C)</i>
<i>Vapor density:</i>	<i>3.22 (Air=1)</i>
<i>Density:</i>	<i>1.02 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>36 g/l (20°C)</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>0.91 logPOW (pH 7.5, 25°C)</i>
<i>Auto-ignition temperature:</i>	<i>540°C (DIN 51794)</i>
<i>Decomposition temperature:</i>	<i>ca. 190°C</i>
<i>Viscosity, dynamic:</i>	<i>4.4 mPa.s (20°C)</i>
<i>Explosive properties:</i>	<i>Product presents an explosion hazard.</i>
<i>Oxidizing properties:</i>	<i>none</i>
<i>Bulk density:</i>	
9.2. Further Information	
<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic:</i>	<i>4.265 mm²/s (20°C)</i>
<i>Burning class:</i>	
<i>Solvent content:</i>	
<i>Solid content:</i>	

next page: 8

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 8

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

Particle size:

Other information:

Temperature class: T1 (maximum temperature: 450°C)

10. Stability and Reactivity

10.1. Reactivity

An explosive dust/air mixture can be formed when strongly heated.

Heating. The critical temperature is considered to be about 15 Kelvin below the flash point.

10.2. Chemical Stability

Sensitive to light.

10.3. Possibility of Hazardous Reactions

Risk of explosion with oxidizing agents, peroxide compounds, perchlorates, perchloric acid, nitric acid, oxygen, organic nitro compounds, benzol/benzene derivatives, nitrates.

Exothermic reaction with: semimetal halogenides, acetic anhydride, acids.

Ignition hazard and formation of inflammable gases or vapors with: fluorine, alkaline earth metals, alkali metals.

10.4. Conditions to Avoid

Conditions to avoid:

Protect from light.

Strong heating.

Thermal decomposition:

10.5. Incompatible Materials

No information available.

10.6. Hazardous Decomposition Products

In the event of fire: see part 5.

10.7. Further Information

11. Toxicological Information

11. 1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

LD50, oral:

442 mg/kg (rat; ECHA)

Symptoms: mucous membrane irritation, risk of aspiration. Acute lung failure as a result of the aspiration of stomach contents.

LD50, dermal:

LC50, inhalation:

Symptoms: mucosal irritations

Primary effects

Irritant effect on skin:

Non irritating (rabbit)

Irritant effect on eyes:

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 9

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

Irritating effect (rabbit).

Causes severe eye damage.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

May cause allergic skin reactions.

Mutagenicity:

In vitro genetic-toxicity: Ames-Test negative

Can probably cause genetic defects.

Reproductive toxicity:

No information available.

Carcinogenicity:

Can probably cause cancer.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: may cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

No information available.

11. 2. Information on other Hazards

This substance/mixture does not contain any components with endocrine disrupting properties in a percentage of 0.1 or greater, according to Article 57(f) of the REACH Regulation (EC) No. 1907/2006 or the Delegated Regulation (EC) 2017/2100 or the Delegated Regulation (EC) 2018/605.

Other adverse effects: headaches, cramps, heart rhythm disturbances, drop in blood pressure, methemoglobinemia, cyanosis (blue discoloration of the blood).

12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:

LC50: 10.6 mg/l (96h, Oncorhynchus mykiss; ECHA); NOEC: 0.39 mg/l (32d, Pimephales promelas; ECHA)

Daphnia toxicity:

EC50: 0.16 mg/l (48h, Daphnia magna; US-EPA); NOEC 0.01 mg/l (21d, Daphnia magna; US-EPA)

Bacteria toxicity:

EC50: 2500 mg/l (10 min, active sludge)

next page: 10

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 10

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

Algae toxicity:

EC50: 68 mg/l (48h, Desmodesmus subspicatus)

12. 2. Persistency and Degradability

90 % (30d); readily biodegradable (Method: OECD 301D)

12. 3. Bioaccumulation

Bioconcentration factor (BCF): 2.6; logPow: 0.90; No bioaccumulation is expected.

12. 4. Mobility

Henry Constant: 0.2 - 3.01 Pa.m³/mol (20°C)

Adsorption: Adsorption coefficient (Organic Carbon): 2.114 (ECHA)

12. 5. Results of PBT- und vPvP Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

12. 6. Endocrine Disrupting Properties

This substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

12. 7. Other Adverse Effects

Water hazard class:

Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

Hazardous for potable water.

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of product residues according to the waste disposal guidelines 2008/98/EC as well as according to official national and local regulations. Leave chemical in original containers.

Do not mix with other waste.

European Waste Code (EWC):

Uncleaned packaging:

Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

1547

next page: 11

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 11

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

14. 2. UN Proper Shipping Name

ADR/RID: ANILIN

IMDG/IATA: ANILINE

14. 3. Transport Hazard Classes

ADR Class: 6.1

Hazard no.: 6.1

Classification code: T1

Tunnel restriction code: D/E

IMDG Class (sea): 6.1

Hazard no.: 6.1

EmS No.: F-A, S-A

IATA Class: 6.1

Hazard no.: 6.1

14. 4. Packaging Group

ADR/RID: II

IMDG: II

IATA: II

14. 5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: fish and tree

Labelling according 5.2.1.6.3 IMDG: fish and tree

Classification as environmentally hazardous according 2.9.3

IMDG: yes

Labelled with "P" according 2.10 IMDG: yes

14. 6. Special Precautions for User

14. 7. Maritime Transport in Bulk according to IMO Instruments

not evaluated

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

3, very hazardous for water (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Acute toxic (H2): Amount 1: 50 t; Amount 2: 200 t

Environmentally hazardous (E1); Amount 1: 100 t; Amount 2: 200 t

Employment restrictions:

The employment restrictions for young workers in accordance

next page: 12

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 12

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

with the Youth Employment Protection Law are to be observed. Observe employment restrictions in accordance with the law on the protection of mothers at work, in training, and in education (Mutterschutzgesetz – MuSchG).

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 3, 75

The product underlies the sales restrictions of the Chemical Prohibition Ordinance.

Technical instructions on air quality:

5.2.5.: Organic substances, class 1: > 25 wt.-% (m>=0.1 kg/h: conc. 20 mg/m³)

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern above the legal limit value (> 0.1 % (w/w) REACH Regulation (EC) 1907/2006, Article 57).

15. 3. Further Information

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable
Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

Regulation (EC) 850/2004 - Persistent Organic Pollutants and amending Directive 79/117/EEC: not regulated / not applicable

Regulation (EC) 689/2008 concerning the export and import of dangerous chemicals: not regulated / not applicable

RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHs): not listed.

Regulation (EC) No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register (PRTR): Not listed

Directive 2010/75/EC on Industrial Emissions:

VOC Content: 100 %

Decopaint Directive (2004/42/EC):

VOC Content: 100 %

VOCV (CH): 0 %

Listed in the following inventories:

ECSI (EU), REACH (EU), TSCA (US), DSL (CA), AIIC (AUS), NZIoC (NZ), CSCL/ENCs (JP), KECI (KR), PICCS (PH), IECSC (CN), TCSI (TW), INSQ (MX), CICR (TR)

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be

next page: 13

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94200 Aniline

Page 13

Revised edition: 31.12.2025

Version: 8

Printed: 15.05.2026

therefore not be construed as guaranteeing specific properties.